



Cell-Based and In Vitro Assays for GloMax[®] Instruments

GloMax[®] Instruments are your gateway to easier detection, better data and more applications. Expand your lab's capability and open up new possibilities by exploring our numerous kits and reagents—all designed to work seamlessly with GloMax[®] Instruments.

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Luminescent Cell-Based Assays

Compatible with GloMax® Discover and Explorer Multimode Instruments and GloMax® Navigator Microplate Luminometer

Description	Size	Cat. #
Protein Tagging Detection Systems		
Nano-Glo® HiBiT Lytic Detection System Lytic assay providing LgBiT and furimazine substrate to quantify HiBiT-tagged proteins within a cell.	10ml	N3030
	100ml*	N3040
Nano-Glo® HiBiT Extracellular Detection System Nonlytic assay providing LgBiT and furimazine substrate to quantify HiBiT-tagged proteins on the cell surface or secreted into the culture medium.	10ml	N2420
	100ml*	N2421
Live-Cell Protein Interactions		
NanoBRET™ Nano-Glo® Detection System NanoBRET™ Nano-Glo® Substrate and HaloTag® NanoBRET™ 618 Ligand for detection of NanoBRET™ protein interaction assays. Detection systems for extended kinetic analysis also available. <i>GloMax® Discover only.</i>	200 assays	N1661
	1,000 assays*	N1662
Nano-Glo® Live Cell Assay System Designed for use with the NanoBIT® Protein Interaction Assays.	100 assays	N2011
	1,000 assays*	N2012
NanoBRET™ Target Engagement Measures compound binding at select target proteins in intact cells in real time. Uses an expressed cellular target protein fused to NanoLuc® Luciferase. <i>GloMax® Discover only.</i>	BET BRD*	N2130
	HDAC*	N2080
NanoBRET™ TE Intracellular Kinase Assays A fixed concentration of tracer is added to cells expressing the desired kinase-NanoLuc® Vector fusion to generate a BRET signal. <i>GloMax® Discover only.</i>	Multiple kinases and sizes are available	
NanoBRET™ Nano-Glo® Substrate/ Extracellular NanoLuc® Inhibitor The NanoBRET™ Nano-Glo® Substrate generates luminescence from intracellular NanoLuc® fusion proteins, providing energy transfer to kit-specific fluorescent tracers and resulting in BRET. The Extracellular NanoLuc® Inhibitor is for inhibition of NanoLuc® Luciferase that has leaked into the culture medium from dead cells. Detection systems for extended kinetic analysis also available. <i>GloMax® Discover only.</i>	1,000 assays	N2160
	10,000 assays	N2161
Reporter Bioassays		
Multiple products available. Luminescent bioassays for effector activity, immune checkpoint modulation, cell retargeting, cytokine and growth factor signaling and tumor antigen-specific cell killing assays to characterize and develop novel mAb-based therapeutics.		
Reporter Gene Assays		
Nano-Glo® Dual-Luciferase® Reporter Assay System Consecutive add-mix-measure assays for firefly and NanoLuc® Luciferase with longer signal half-life (2 hours each).	10ml	N1610
	100ml*	N1620
Nano-Glo® Luciferase Assay System Add-mix-measure assay for NanoLuc® Luciferase with natural >2-hour half-life in most applications.	10ml	N1110
	100ml*	N1120
Nano-Glo® Endurazine™ and Vivazine™ Live Cell Substrates Substrates to enable live-cell, nonlytic assays with NanoLuc® or NanoBIT® luciferases for up to 72 hours.	0.1ml*	N2590

Dual-Glo® Luciferase Assay System Consecutive add-mix-measure assays for firefly and <i>Renilla</i> Luciferase with longer signal half-life (2 hours each).	10ml	E2920
	100ml*	E2940
Dual-Luciferase® Reporter Assay System Lyse cells, and then assay a portion for both firefly and <i>Renilla</i> luciferase, consecutively. Needs two injectors.	100 assays	E1910
	1,000 assays	E1960
ONE-Glo™ Luciferase Assay System Add-mix-measure extended half-life (50 minutes) firefly luciferase assay using more stable fluoroluciferin.	10ml	E6110
	100ml*	E6120
ONE-Glo™ EX Luciferase Assay System Add-mix-measure extended half-life (2 hours) assay with increased reconstituted reagent stability.	10ml	E8110
	100ml*	E8120
Bright-Glo™ Luciferase Assay System Add-mix-measure extended half-life (30 minutes) firefly luciferase assay.	10ml	E2610
	100ml*	E2620
Steady-Glo® Luciferase Assay System Add-mix-measure extended half-life (5 hours) firefly luciferase assay.	10ml	E2510
	100ml*	E2520
Renilla-Glo™ Luciferase Assay System Add-mix-measure extended half-life (60 minutes) <i>Renilla</i> luciferase assay.	10ml	E2710
	100ml*	E2720
Beta-Glo® Assay System Add-mix-measure luminescent β-galactosidase assay.	10ml	E4720
	100ml*	E4740

First generation Luciferase Assay System (e.g., Cat.# E1500), Luciferase Assay System with Reporter Lysis Buffer (e.g., Cat.# E4030) and *Renilla* Luciferase Assay System (e.g., Cat.# E2810) also available.

Cell Viability Assays

RealTime-Glo™ MT Cell Viability Assay Monitor cell health continuously over 72 hours with this "zero-step" nonlytic viability assay. Based on reduction of a prosubstrate within the cell diffusing out and reacting with NanoLuc® Luciferase.	100 reactions	G9711
	1,000 reactions*	G9713
RealTime-Glo™ Extracellular ATP Assay Detect ATP released from dying, stressed or activated cells with a homogeneous, live-cell kinetic assay.	200 assays	GA5010
	2,000 assays*	GA5011
CellTiter-Glo® 3D Cell Viability Assay Redesigned with greater lytic power to make the first ATP-based viability assay truly designed for work with 3D cultures.	10ml	G9681
	100ml*	G9683
CellTiter-Glo® 2.0 Cell Viability Assay More stable CellTiter-Glo® formulation. Just thaw and use, and store at 4°C (20 weeks) or 22°C (7 days).	10ml	G9241
	100ml*	G9242
CellTiter-Glo® One Solution Assay Frozen, ready-to-use assay eliminates several protocol steps. Ideal for HTS in 96- to 1,536-well plate formats.	100ml	G8461
	500ml	G8462
BacTiter-Glo™ Microbial Cell Viability Assay Rapid 5-minute add-mix-measure ATP assay for bacteria and yeast with sensitivity to the 10s of cells. Scalable from 96- to 1,536-well plates.	10ml	G8230
	100ml*	G8232
Water-Glo™ Microbial Water Testing Kit Luminescent assay to detect all live microbes in freshwater, seawater or wastewater.	20 assays	AM1002
	96 assays	AM1003
ENLITEN® ATP Assay System Luminescent assay to indirectly detect biocontamination on food processing surfaces, cosmetics and beverages or to assay for enzymes that degrade ATP in biological fluids.	100 assays	FF2000

* Larger or alternative catalog sizes available.

Cytotoxicity Assays

CytoTox-Glo™ Cytotoxicity Assay Luminescent protease assay measures "dead cell" protease leaked into culture media from cells with compromised membranes. Protocols for 96- and 384-well assays included.	10ml	G9290
	5 × 10ml*	G9291
LDH-Glo™ Cytotoxicity Assay Bioluminescent assay for rapid, selective and sensitive detection of LDH release from small numbers of cells, including 3D cell models.	10ml	J2380
	50ml	J2381

Apoptosis Assays

RealTime-Glo™ Annexin V Apoptosis and Necrosis Assay Detect phosphatidylserine appearance on the cell surface with the luminescent NanoBiT® technology-based Annexin V molecules and account for dead cells with the fluorescent Necrosis Detection Dye. <i>GloMax® Discover or Explorer.</i>	100 assays	JA1011
	1,000 assays	JA1012
RealTime-Glo™ Annexin V Apoptosis Assay Detect phosphatidylserine appearance on the cell surface with the luminescent NanoBiT® technology-based Annexin V molecules.	100 assays	JA1000
	1,000 assays	JA1001
Caspase-Glo® 3/7 Assay Add-mix-measure cell-based luminescent assay for activated caspase-3 or caspase-7.	10ml	G8091
	10 × 10ml*	G8093
Caspase-Glo® 3/7 3D Assay Add-mix-measure cell-based luminescent assay optimized for detecting activated caspase-3 or caspase-7 in 3D cell models.	10ml	G8981
	10 × 10ml*	G8982
Caspase-Glo® 8 Assay Add-mix-measure cell-based luminescent assay for activated caspase-8.	10ml*	G8201
Caspase-Glo® 9 Assay Add-mix-measure cell-based luminescent assay for activated caspase-9.	10ml*	G8211

Multiplex Assays

Requires luminometer and fluorometer

MultiTox-Glo Multiplex Cytotoxicity Assay (Cell Viability/Cytotoxicity) A sequential same-well multiplex of CellTiter-Fluor™ and CytoTox-Glo™ Assays to measure both live and dead cells. Protocols for 96- and 384-well assays included.	10ml	G9270
	5 × 10ml*	G9271
ONE-Glo™ + Tox Luciferase Reporter and Cell Viability Assay Combination of ONE-Glo™ Luciferase Assay System and CellTiter-Fluor™ Cell Viability Assay with a unified protocol to measure reporter response in the context of cell health.	1 plate	E7110
	10 plates	E7120
ApoLive-Glo™ Multiplex Assay (Cell Viability/Apoptosis) Single-well multiplex assay combines CellTiter-Fluor™ Assay with Caspase-Glo® 3/7 Assay to measure active caspase-3/7. Normalizes caspase activity to live cell number.	10ml	G6410
	5 × 10ml	G6411
ApoTox-Glo™ Triplex Assay (Cell Viability/Cytotoxicity/Apoptosis) Single-well multiplex assay to determine cell death mechanism. Measure live and dead cells with the MultiTox-Fluor Assay followed by the Caspase-Glo® 3/7 Assay.	10ml	G6320
	5 × 10ml	G6321

Oxidative Stress Assays

ROS-Glo™ H₂O₂ Assay Quantitate ROS generation by measuring H ₂ O ₂ without using horseradish peroxidase. The ROS-Glo™ H ₂ O ₂ Substrate reacts directly with H ₂ O ₂ . The two-step assay quantitates H ₂ O ₂ from cells cultured in multiwell plates.	10ml	G8820
	50ml	G8821
GSH-Glo™ Glutathione Assay A 30-minute two-step assay for the detection and quantification of glutathione levels in cells cultured in multiwell plates.	10ml	V6911
	50ml	V6912
GSH/GSSG-Glo™ Assay Parallel measurement of total glutathione and oxidized glutathione in cells cultured in multiwell plates.	10ml	V6611
	50ml	V6612

Energy Metabolism Assays

NAD/NADH-Glo™ Assay Directly detect total oxidized and reduced NAD+ and NADH, respectively, and determine their ratio in biological samples. Simple add-mix-measure assay.	10ml	G9071
	50ml	G9072
NADP/NADPH-Glo™ Assay Directly detect total oxidized and reduced NADP+ and NADPH, respectively, and determine their ratio in biological samples. Simple add-mix-measure assay.	10ml	G9081
	50ml	G9082
Glucose Uptake-Glo™ Assay Highly sensitive three-step luminescent assay to monitor glucose uptake in cultured cells. Utilizes 2-deoxyglucose and measures 2-deoxyglucose-6-phosphate accumulated in cells.	5ml	J1341
	10ml*	J1342
Glucose-Glo™ Assay Bioluminescent assay for rapid, selective and sensitive detection of glucose in biological samples.	5ml	J6021
	50ml	J6022
Lactate-Glo™ Assay Bioluminescent assay for rapid, selective and sensitive detection of lactate in biological samples.	5ml	J5021
	50ml	J5022
Glutamate-Glo™ Assay Bioluminescent assay for rapid, selective and sensitive detection of glutamate in biological samples.	5ml	J7021
	50ml	J7022
Glutamine/Glutamate-Glo™ Assay Glutamine is converted to glutamate with glutaminase, and the glutamate is measured. No-glutaminase control gives background glutamate. Difference gives glutamine levels.	5ml	J8021
	50ml	J8022

Cholesterol/Cholesterol Ester-Glo™ Assay Detects cholesterol from a variety of biological samples. No organic extraction or extreme heat/centrifugation necessary.	5ml	J3190
	50ml	J3191
Triglyceride-Glo™ Assay Detects triglyceride from a variety of biological samples. No organic extraction or extreme heat/centrifugation necessary.	5ml	J3160
	50ml	J3161
Glycerol-Glo™ Assay Bioluminescent assay for rapid, selective and sensitive detection of glycerol in biological samples.	5ml	J3150
	50ml	J3151
Mitochondrial ToxGlo™ Assay Sequential add-mix-measure assays to measure membrane integrity and mitochondrial function through ATP. Allows distinction between treatments that cause necrosis and treatments that affect mitochondrial ATP production.	10ml	G8000
	100ml	G8001

Histone Deacetylase Assays

HDAC-Glo™ I/II Assay One-step assay for HDAC class I or class II enzymes in cultured cells, extracts or purified enzymes. Protocols for 96- and 384-well assays included	10ml	G6420
	5 × 10ml*	G6421
HDAC-Glo™ Class IIa Assay	10ml	G9560
HDAC-Glo™ 2 Assay	10ml	G9590

Proteasome Activity Assays

Proteasome-Glo™ 3-Substrate Cell-Based Assay Rapid add-mix-measure assay of either caspase-like, chymotrypsin-like or trypsin-like proteasome activities. All three assay kits bundled under one catalog number.	10ml	G1180
	50ml	G1200
Proteasome-Glo™ Caspase-Like Assay Rapid add-mix-measure assay of caspase-like proteasome activity. Protocols for 96- and 384-well plate formats.	10ml	G8860
	50ml	G8861
Proteasome-Glo™ Chymotrypsin-Like Assay Rapid add-mix-measure assay of chymotrypsin-like proteasome activity. Protocols for 96- and 384-well plate formats.	10ml	G8660
	50ml*	G8661
Proteasome-Glo™ Trypsin-Like Assay Rapid add-mix-measure assay of trypsin-like proteasome activity. Protocols for 96- and 384-well plate formats.	10ml	G8760
	50ml	G8761

Cytochrome P450 Assays

P450-Glo™ CYP3A4 Assay with Luciferin-IPA Rapid two-step assay of CYP3A activity in cultured cells. Most selective substrate for the CYP3A4 isozyme.	10ml	V9001
	50ml	V9002
P450-Glo™ CYP2B6 Assay Rapid two-step assay of CYP2B activity in cultured cells. Most selective substrate for the CYP2B6 isozyme.	10ml	V8321
	50ml	V8322
P450-Glo™ CYP1A2 Induction/Inhibition Assay Rapid two-step assay of CYP1A2 activity in cultured cells. Most selective substrate for the CYP1A2 isozyme.	10ml	V8421
	50ml	V8422
P450-Glo™ CYP1A1 Assay (Luciferin-CEE) Rapid two-step assay of CYP1A activity in cultured cells.	10ml	V8751
	50ml	V8752
P450-Glo™ CYP2C9 Assay (Luciferin-H) Rapid two-step assay of CYP2C activity in cultured cells. Most selective substrate for CYP2C9.	10ml	V8791
	50ml	V8792

Viral Toxicity Assay

Viral ToxGlo™ Assay Simple, quantifiable method for determining viral-induced cytopathic effects (CPE) in host cells caused by lytic virions. Simple add-mix-measure protocol yields data in 10 minutes.	10ml	G8941
	10 × 10ml*	G8942

Inflammasome Assays

Caspase-Glo® 1 Inflammasome Assay Follow inflammasome activation through the gain of active caspase-1 activity. Simple add-mix-measure assay.	10ml	G9951
	5 × 10ml*	G9952
Lumit™ Human IL-1β Immunoassay Detect release of processed human IL-1β directly in cell culture samples with a simple add-mix-measure immunoassay complete in 70 minutes.	100 assays	W6010
	500 assays	W6012
	1,000 assays	W6011
Lumit™ Mouse IL-1β Immunoassay Detect release of processed mouse IL-1β directly in cell culture samples with a simple add-mix-measure immunoassay complete in 70 minutes.	100 assays	W7010
	500 assays	W7012
	1,000 assays	W7011

cAMP Assay

cAMP-Glo™ Max Assay A 30-minute, two-step assay for measuring cAMP levels in cells. Luminescent signal is inversely proportional to cAMP content of cells. Sufficient reagents for indicated 96- or 384-well plates.	2 plates	V1681
	20 plates*	V1682
	300 assays	V1501
cAMP-Glo™ Assay A 45-minute assay for measuring cAMP levels in cells. Luminescent signal is inversely proportional to cAMP content of cells.	3,000 assays	V1502
	30,000 assays	V1503

* Larger or alternative catalog sizes available.

Luminescent Biochemical In Vitro Assays

Compatible with GloMax® Discover and Explorer Multimode Instruments and GloMax® Navigator Microplate Luminometer

Description	Size	Cat.#
Kinase and ATPase Assays		
ADP-Glo™ Kinase Assay† Luminescent antibody-free ADP accumulation assay to quantitate any ADP-generating reaction starting from 0–1mM ATP. Light output is directly proportional to kinase activity. Ideal for protein, lipid or sugar kinases. Assay sizes indicated are for 384-well format.	1,000 assays	V9101
	10,000 assays	V9102
	10 × 10,000* assays	V9103
ADP-Glo™ Max Assay Luminescent antibody-free ADP accumulation assay to quantitate any ADP-generating reaction starting from 0–5mM ATP. Light output is directly proportional to kinase or ATPase activity. Ideal for examining non-ATP binding site kinase inhibitors and ATPases. Assay sizes indicated are for 384-well format.	1,000 assays	V7001
	10,000 assays	V7002

Kinase-Glo® Luminescent Kinase Assay Add-mix-measure ATP depletion assay starting from protein, lipid or sugar kinase reactions containing 0–10μM ATP. Light output is inversely proportional to kinase activity. Protocols for 96- and 384-well assays included.	10ml	V6711
	10 × 10ml	V6712
	100ml	V6713
	10 × 100ml	V6714
Kinase-Glo® Plus Luminescent Kinase Assay Add-mix-measure ATP depletion assay starting from protein, lipid or sugar kinase reactions containing 0–100μM ATP. Light output is inversely proportional to kinase activity. Protocols for 96- and 384-well assays included.	10ml	V3771
	10 × 10ml	V3772
	100ml	V3773
	10 × 100ml	V3774
Kinase-Glo® Max Luminescent Kinase Assay Add-mix-measure ATP depletion assay starting from protein, lipid or sugar kinase reactions containing 0–500μM ATP. Light output is inversely proportional to kinase activity. Protocols for 96- and 384-well assays included.	10ml	V6071
	10 × 10ml	V6072
	100ml	V6073
	10 × 100ml	V6074

Kinase and ATPase Assays, continued

Pgp-Glo™ Assay

Luminescent P-glycoprotein ATPase assay to identify stimulators or inhibitors of ATPase. Light output is inversely proportional to P-glycoprotein ATPase activity. Protocols for 96-well assays included.

10ml V3591

Pgp-Glo™ with P-Glycoprotein

The Pgp-Glo™ Assay plus membranes containing recombinant human P-glycoprotein.

10ml V3601

† Also available with >370 different human Kinase Enzyme Assay Systems providing kinase, substrate and reaction buffer. For more information and list of kinases, visit: www.promega.com/kinase

GTPase Assay

GTPase-Glo™ Assay

Assess the activity of GTPases, GAPs and GEFs by detecting the amount of GTP remaining after GTP hydrolysis in a GTPase reaction. Simple two-step assay. Assay size refers to 384-well plate reactions.

1,000 assays V7681

10,000 assays V7682

NADH or NADPH Biochemical Assay

NAD(P)H-Glo™ Detection System

Quantifies NADH and/or NADPH and does not discriminate between them. The oxidized forms, NAD⁺ and NADP⁺, are not detected and do not interfere with quantitation.

10ml G9061

50ml G9062

Cytochrome P450 Biochemical Assays

P450-Glo™ Assays are designed to rapidly quantify cytochrome P450 activity for ADME/Tox profiling. Each assay uses a substrate selective for an isozyme. The isozyme converts a pro-luciferin to luciferin, which is measured in a luciferase reaction. Light output is proportional to isozyme activity. Each in vitro or biochemical P450-Glo™ Assay requires the additional purchase of the NADPH Regeneration System (Cat.# V9510; 1,000 assays, 96-well format).

P450-Glo™ CYP2B6 Assay† 10ml* V8321

P450-Glo™ CYP3A4 Assay with Luciferin IPA† 10ml* V9001

P450-Glo™ CYP3A4 (Luciferin-PPXE) DMSO-Tolerant Assay† 10ml* V8911

P450-Glo™ CYP1A1 Assay (Luciferin-CEE) 10ml* V8751

P450-Glo™ CYP1A2 Induction/Inhibition Assay 10ml* V8421

P450-Glo™ CYP1A2 Assay (Luciferin-ME)† 10ml* V8771

P450-Glo™ CYP1B1 Assay (Luciferin-CEE) 10ml* V8761

P450-Glo™ CYP2C8 Assay (Luciferin-ME) 10ml* V8781

P450-Glo™ CYP2C9 Assay (Luciferin-H)† 10ml* V8791

P450-Glo™ CYP2C19 Assay (Luciferin-H EGE)† 10ml* V8881

P450-Glo™ CYP2D6 Assay (Luciferin-ME EGE) 10ml* V8891

† P450-Glo™ Screening Systems available containing the biochemical assay, NAPDH Regeneration System, recombinant CYP450 isoform membranes and control membranes. Each designed for 1,000 assays in 96-well format.

* 50ml sizes available.

Methyltransferase and Demethylase/Hydroxylase Assays

MTase-Glo™ Methyltransferase Assay

Universal assay to detect methyltransferase activity. Measures S-Adenosyl Homocysteine (SAH) released from the methyl donor S-Adenosylmethionine (SAM). Simple two-step assay. Assay size refers to 96-well plate reactions.

400 assays V7601

2,000 assays V7602

Succinate-Glo™ JmjC Demethylase/Hydroxylase Assay

Bioluminescent assay for detecting the activity of JumonjiC (JmjC) histone demethylases and many Fe(II)/ α -ketoglutarate-dependent dioxygenases that use α -ketoglutarate as substrate and release succinate as a product. Assay size refers to 384-well plate reactions.

1,000 assays V7990

10,000 assays V7991

Histone Deacetylase and Sirtuin Assays

HDAC-Glo™ I/II Assay†

One-step assay for HDAC class I or class II enzymes in cells, extracts or purified enzymes. Protocols for 96- and 384-well assays included.

10ml G6420

5 × 10ml* G6421

HDAC-Glo™ Class IIa Assay

One-step assay that measures the relative activity of histone deacetylase (HDAC) Class IIa enzymes in cells, extracts or purified enzymes. Protocols for 96- and 384-well assays included.

10ml G9560

HDAC-Glo™ 2 Assay

One-step assay that measures the relative activity of histone deacetylase (HDAC) Class I enzyme 2 in cells, extracts or purified enzymes. Protocols for 96- and 384-well assays included.

10ml G9590

Proteasome In Vitro Activity Assays

Proteasome-Glo™ 3-Substrate System

Rapid in vitro add-mix-measure assay of either caspase-like, chymotrypsin-like or trypsin-like 20S proteasome activities. All three assay kits bundled under one catalog number.

10ml G8531

50ml G8532

Proteasome-Glo™ Caspase-Like Assay

Rapid in vitro add-mix-measure assay of caspase-like 20S proteasome activity. Protocols for 96- and 384-well plate formats.

10ml G8641

50ml G8642

Proteasome-Glo™ Chymotrypsin-Like Assay

Rapid add-mix-measure assay of chymotrypsin-like 20S proteasome activity. Protocols for 96- and 384-well plate formats.

10ml G8621

50ml G8622

Proteasome-Glo™ Trypsin-Like Assay

Rapid add-mix-measure assay of trypsin-like 20S proteasome activity. Protocols for 96- and 384-well plate formats.

10ml G8631

50ml G8632

Sugar Transferase Assays

GDP-Glo™ Glycosyltransferase Assay†

Rapid one-step universal assay of GDP glucuronosyltransferase (GGT) activity through release of GDP from a GDP-sugar. Light output is proportional to GDP released from GGT activity. Assay size refers to 96-well format. Scalable to 384-well format. Ultra-pure GDP sugar substrates available.

200 assays VA1090

400 assays* VA1091

UDP-Glo™ Glycosyltransferase Assay†

Rapid one-step universal assay of UDP glucuronosyltransferase (UGT) activity through release of GDP from a GDP-sugar. Light output is proportional to UDP released from UGT activity. Assay size refers to 96-well format. Scalable to 384-well format. Ultra-pure UDP sugar substrates available.

200 assays V6961

400 assays* V6962

UMP/CMP-Glo™ Glycosyltransferase Assay

Rapid one-step assay. Detects sialyltransferases and phosphoglycosyltransferases that use CMP-, CDP- or UDP-sugars as donor substrates. Assay size refers to 96-well format. Scalable to 384-well format.

200 assays VA1130

400 assays* VA1131

AMP Accumulation Assay

AMP-Glo™ Assay

Luminescent method for measuring any biochemical reaction that produces AMP as a reaction product. Light output is proportional to enzyme activity. Assay size refers to 384-well format.

1,000 assays V5011

10,000 assays V5012

* Larger or alternative catalog sizes available.

† Screening systems with enzymes or specialized substrates available.

Phosphodiesterase Assay

PDE-Glo™ Assay

Luminescent method for measuring cyclic nucleotide phosphodiesterase activity (both cAMP and cGMP) from purified sources. Light output is proportional to enzyme activity. Assay size refers to 384-well format.

1,000
assays V1361

Monoamine Oxidase (MAO) Assays

MAO-Glo™ Assay†

Rapid assay for monoamine oxidase (MAO) A or B activity in vitro from recombinant or natural sources. Light output is proportional to enzyme activity. Assay size refers to 96-well format. Scalable to 384- and 1,536-well formats.

200
assays V1401

1,000
assays V1402

In Vitro Protease Assays

Rapid, sensitive assays designed for inhibitor/activator screening of specific enzyme in an in vitro assay. Substrates contain a peptide attached to aminoluciferin. Cleavage of the peptide releases the aminoluciferin to participate in the luciferase reaction generating light. Therefore, light output is proportional to enzyme activity. Luminescent protease assays can be 10- to 100-fold more sensitive than fluorescent assays. Protocols for 96- and 384-well plate formats.

Calpain-Glo™ Assay

Measures calpain I or II

10ml* G8501

DPPIV-Glo™ Assay

Measures dipeptidyl peptidase IV

10ml* G8350

* Larger or alternative catalog sizes available

Immunoassay Detection and Labeling Systems

Compatible with GloMax® Discover and Explorer Multimode Instruments

Description

Size Cat.#

Lumit™ Labeling and Detection Kits

Lumit™ Immunoassay Labeling System

Perform labeling of antibodies with Lumit™ reagents to create your own Lumit™ Immunoassay for additional targets.

1 each VB2500

Lumit™ Immunoassay Detection Reagent A

Detection reagent used with labeled Lumit™ antibodies.

500
assays VB2010

Lumit™ Immunoassay Detection Reagent B

Detection reagent used with labeled Lumit™ antibodies in cell based applications.

100
assays VB4050

Lumit™ Immunoassay Cellular Systems

Lumit™ Immunoassay Cellular System Starter Kit

Two sets of labeled secondary antibodies and reagents required to perform Lumit™ assays with customer-provided primary antibodies. Also available as separate Set 1 (W1201) and Set 2 (W1331) configurations.

200
assays W1220

Lumit™ Immunoassay Lysis and Detection Kit

Includes reagents required to lyse cells and detect luminescence in Lumit™ cellular assays with customer-provided primary antibodies.

100
assays W1231

Neonatal Fc Receptor Binding

Lumit™ FcRn Binding Immunoassay

No-wash competition assay to measure the interaction between human FcRn and Fc proteins, including antibodies. Results in <1 hour.

100
assays W1151

1,000
assays W1152

View the most current list of Lumit™ products at:
promega.com/LumitAssays

Fluorometric Assays

Compatible with GloMax® Discover and Explorer Multimode Instruments

Description	Size	Cat.#	Optical Kit Used	
			UV	BLUE
Nucleic Acid Quantitation				
QuantiFluor® ONE dsDNA System Pre-diluted QuantiFluor® dsDNA Dye solution and standard for quicker reads.	100 reactions	E4871		X
QuantiFluor® dsDNA System Quantitate dsDNA down to 50pg/ml or 5pg/well in 96-well format. 1ml provides 2,000 assays in 96-well format. Includes standard.	1ml	E2670		X
QuantiFluor® Dx dsDNA System* Sensitive and specific quantitation of dsDNA. Suitable for use with in vitro diagnostic assays, including the OncoMate™ MSI Dx Analysis System. IVD medical device.	2,000 reactions	E5900		X
QuantiFluor® RNA System Quantitate RNA down to 2ng/ml or 200pg/well in 96-well format. 1ml provides 2,000 assays in 96-well format. Includes standard.	1ml	E3310		X
QuantiFluor® ssDNA System Quantitate ssDNA down to 200pg/well. 1ml provides 2,000 assays in 96-well format. Includes standard.	1ml	E3190		X

*This product is only available in the United States.

Optical Kit Used

Description	Size	Cat. #	Optical Kit Used			
			AFC	BLUE	GREEN	LUMINESCENCE
Cell Viability Assays						
CellTiter-Fluor™ Cell Viability Assay	10ml	G6080	X			
Nonlytic fluorescent (AFC) assay measuring "live cell" protease with sensitivity to the 100s of cells. Multiplexes well with luminescent and fluorescent assays. Protocols for 96- and 384-well formats included.	5 × 10ml*	G6081	X			
CellTiter-Blue® Cell Viability Assay	20ml	G8080			X	
Nonlytic fluorescent (resazurin/resorufin) assay measuring reducing potential within cell with sensitivity to the 100s of cells. Protocols for 96- and 384-well formats included. Not recommended for multiplexing with luminescent assays due to the intense color of the reagent leading to color quenching of luminescence.	100ml	G8081			X	
Cytotoxicity Assays						
CellTox™ Green Cytotoxicity Assay	10ml	G8741		X		
Dye-based, non-toxic membrane integrity assay that labels DNA in cells with compromised membranes. Add at plating or dosing to assess cytotoxicity kinetically, or wait and add at the end of your incubation. Multiplexes well with luminescent and fluorescent assays. 1000X dye solution scales from 96- to 1,536-well plates.	50ml*	G8742		X		
CytoTox-Fluor™ Cytotoxicity Assay	10ml	G9260		X		
Nonlytic fluorescent (Rhodamine 110) protease release assay measures "dead cell" protease leaked into culture media from cells with compromised membranes. Multiplexes well with luminescent and fluorescent assays. Protocols for 96- and 384-well formats included.	5 × 10ml*	G9261		X		
CytoTox-ONE™ Homogeneous Membrane Integrity Assay	200–800 assays	G7890			X	
Nonlytic fluorescent (resazurin/resorufin) assay measures lactate dehydrogenase (LDH) leaked into culture media from cells with compromised membranes. Protocols for 96- and 384-well formats included. Not recommended for multiplexing with luminescent assays due to the intense color of the reagent leading to color quenching of luminescence.	1,000–4,000 assays*	G7891			X	
Multiplexed Cell Viability/Cytotoxicity Assays						
MultiTox-Fluor Multiplex Cytotoxicity Assay	10ml	G9200	X	X		
A same-well multiplex of CellTiter-Fluor™ and CytoTox-Fluor™ Assays to measure both live and dead cells to differentiate cytotoxic from cytostatic response. Multiplexes well with bioluminescent assays. Protocols for 96- and 384-well assays included.	5 × 10ml	G9201	X	X		
MultiTox-Glo Multiplex Cytotoxicity Assay	10ml	G9270		X		X
A sequential same-well multiplex of CellTiter-Fluor™ and CytoTox-Glo™ Assays to measure both live and dead cells to differentiate cytotoxic from cytostatic response. Protocols for 96- and 384-well assays included.	5 × 10ml*	G9271		X		X
Apoptosis Assay						
Apo-ONE® Homogeneous Caspase-3/7 Assay	10ml†	G7790		X		
Lytic add-mix-measure cell-based fluorescent (Rhodamine 110) assay for activated caspase-3 (or caspase-7). Protocols for 96- and 384-well assays included.	100ml	G7791		X		
Multiplexed Cell Viability/Cytotoxicity Assays						
ApoLive-Glo™ Multiplex Assay	10ml	G6410	X			X
Single-well multiplex assay combines CellTiter-Fluor™ Assay with Caspase-Glo® 3/7 Assay to measure active caspase-3/7. Normalizes caspase activity to live cell number. Protocols for 96- and 384-well assays included.	5 × 10ml	G6411	X			X
ApoTox-Glo™ Triplex Assay	10ml	G6320	X	X		X
Single-well multiplex assay to determine cell death mechanism. Measures live and dead cells with the MultiTox-Fluor Assay followed by the Caspase-Glo® 3/7 Assay. Protocols for 96- and 384-well assays included.	5 × 10ml	G6321	X	X		X

* Larger or alternative format catalog sizes available.

† Smaller catalog sizes available.

Colorimetric Assays

Compatible with GloMax® Discover and Explorer Multimode Instruments

Description	Size	Cat.#	Filter Used			
			450nm	490nm	560nm	600nm
Cell Viability Assays						
CellTiter 96® A_{Queous} One Solution Cell Proliferation Assay						
Nonlytic MTS assay measuring reducing potential through an electron coupling reagent, PES, with sensitivity to the 100s–1000s of cells. MTS/ PES solution comes as a pre-mixed single reagent, ready for use. Protocols for 96-well formats included.	200 assays	G3582		X		
	1,000 assays*	G3580		X		
CellTiter 96® A_{Queous} Non-Radioactive Cell Proliferation Assay						
Nonlytic MTS assay measuring reducing potential through an electron coupling reagent, PMS, with sensitivity to the 100s–1000s of cells. MTS/PMS solution is mixed just prior to use. Protocols for 96-well formats included.	1,000 assays	G5421		X		
	5,000 assays*	G5430		X		
CellTiter 96® Non-Radioactive Cell Proliferation Assay						
MTT assay directly measuring reducing potential in cells, with sensitivity to the 100s–1000s of cells. Comes with Dye Solution (MTT) and Solubilization Solution/Stop Mix. Protocols for 96-well formats included.	1000 assays	G4000			X	
	5,000 assays	G4100			X	
Cytotoxicity Assay						
CytoTox 96® Non-Radioactive Cytotoxicity Assay						
Nonlytic colorimetric (INT) assay measures lactate dehydrogenase (LDH) leaked into culture media from cells with compromised membranes. Protocols for 96- and 384-well formats included.	1,000 assays	G1780		X		
Nitric Oxide Assay						
Griess Reagent System						
Measures nitrite (NO ₂ ⁻), one of the stable, nonvolatile breakdown products of nitric oxide. Use to measure NO in liquid materials such as plasma, serum, urine or conditioned cell culture medium. Protocols for 96-well formats included.	1,000 assays	G2930			X	
Phosphatase Assays						
The Phosphatase Assay Systems are based on measuring free phosphate liberated from a peptide or protein substrate by a phosphatase by the formation of a colorimetric molybdate:malachite green:phosphate complex. Each system includes the dye mix and one or two phosphorylated substrate peptides.						
Serine/Threonine Phosphatase Assay System						
Contains one peptide substrate, suitable for PPase 2A, 2B and 2C.	96 reactions	V2460				X
Tyrosine Phosphatase Assay System						
Contains two peptide substrates, suitable for many tyrosine phosphatases.	96 reactions	V2471				X

*Larger catalog sizes available.



For more information about the cell-based assays listed, visit: promega.com/CellBiologyAssays



For more information about the protein analysis assays listed, visit: promega.com/ProteinAnalysis



See our collection of example protocols and data generated using GloMax® Instruments at: promega.com/GloMaxAppNotes

Apo-ONE, Beta-Glo, Caspase-Glo, CellTiter 96, CellTiter-Blue, CellTiter-Glo, CytoTox 96, Dual-Glo, Dual-Luciferase, ENLITEN, GloMax, HaloTag, Kinase-Glo, NanoBIT, Nano-Glo, NanoLuc, QuantiFluor and Steady-Glo are registered trademarks of Promega Corporation.

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