



GloMax
SYSTEMS



GloMax[®] Discover and Explorer

State-of-the-art multimode readers
for luminescence, fluorescence and
absorbance detection.

Easy-To-Use

The intuitive touchscreen display, preloaded protocols and automatic instrument gain adjustments make it simple to produce your data and analyze results.

Integrated Assays

Optimized, preloaded Promega protocols are part of the GloMax[®] Systems Software, minimizing time spent optimizing instrument settings.

Flexible

Select the detection modules you need. Place on a bench top or integrate into a larger automated platform for higher throughput.



OVERVIEW
VIDEO

Superior Performance

A broader dynamic range measures high and low samples within the same experiment, resulting in better sensitivity for low-level samples and lower well-to-well cross talk.

World-Class Service

Comprehensive standard warranty and our expert service team ready to answer questions about the instrument or chemistries. Additional service products, including Installation and Operation Qualification (IQ/OQ) are available.

The Right Instrument for Your Needs

GloMax[®] Discover and Explorer offer a range of detection options. Purchase the instrument and modules you need now. Upgrade your system later as your laboratory needs change.

Model	Luminescence	Fluorescence	Visible Absorbance	UV-Visible Absorbance	BRET and FRET
GloMax[®] Explorer Model GM3510	✓	✓	Upgrade	Upgrade	Upgrade
GloMax[®] Explorer Model GM3500	✓	✓	✓	Upgrade	Upgrade
GloMax[®] Discover Model GM3000	✓	✓		✓	✓

Unpack, Plug In and Start Generating Data

Automatic Instrument Adjustments

No manual gain adjustment for luminescence reads. Optimized settings are set automatically.

Reporting

Preloaded software provides many of the required technical elements of a part 11 compliant system when used with the appropriate laboratory workflow.

Minimal Manual Intervention

Easily multiplex assays with automated filter switching, gaining more data from a single well. Measure cell viability and gene reporter activity with the touch of a button.

Data Analysis

Easily measure and analyze your results using the intuitive, preloaded SMART Protocols software.



Easy to Use for Your Application

Automatic Filter Slides

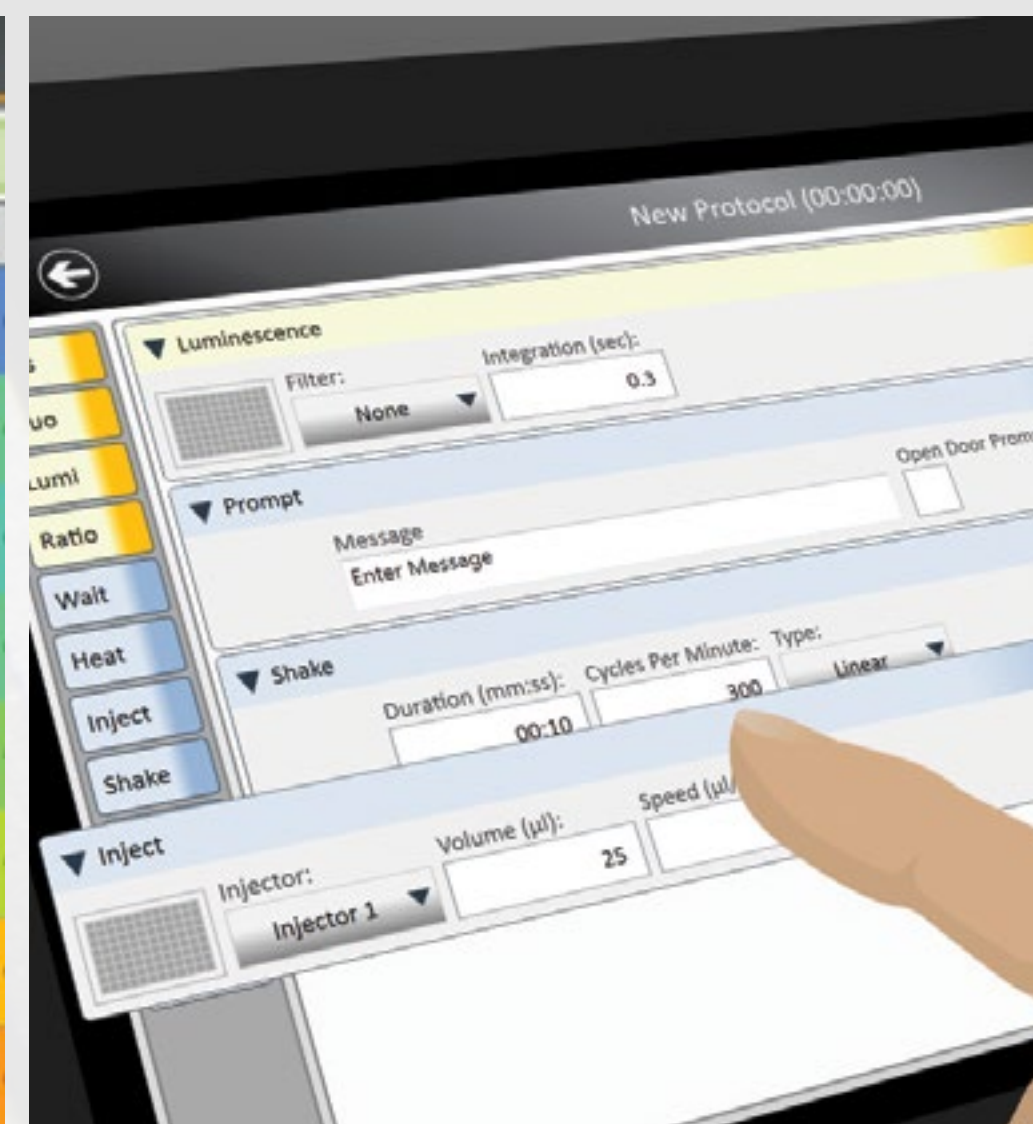
- Multiple reads without user intervention
- Easily perform BRET and FRET studies
- Customize filters for your needs

Flexible Interface

- Select a preloaded protocol or customize your own
- Set up a plate map
- View data in a heat map display
- Easily export your results to a variety of locations



Heat Map Display.



Drag and Drop Protocols.

Integrated Filter Slides

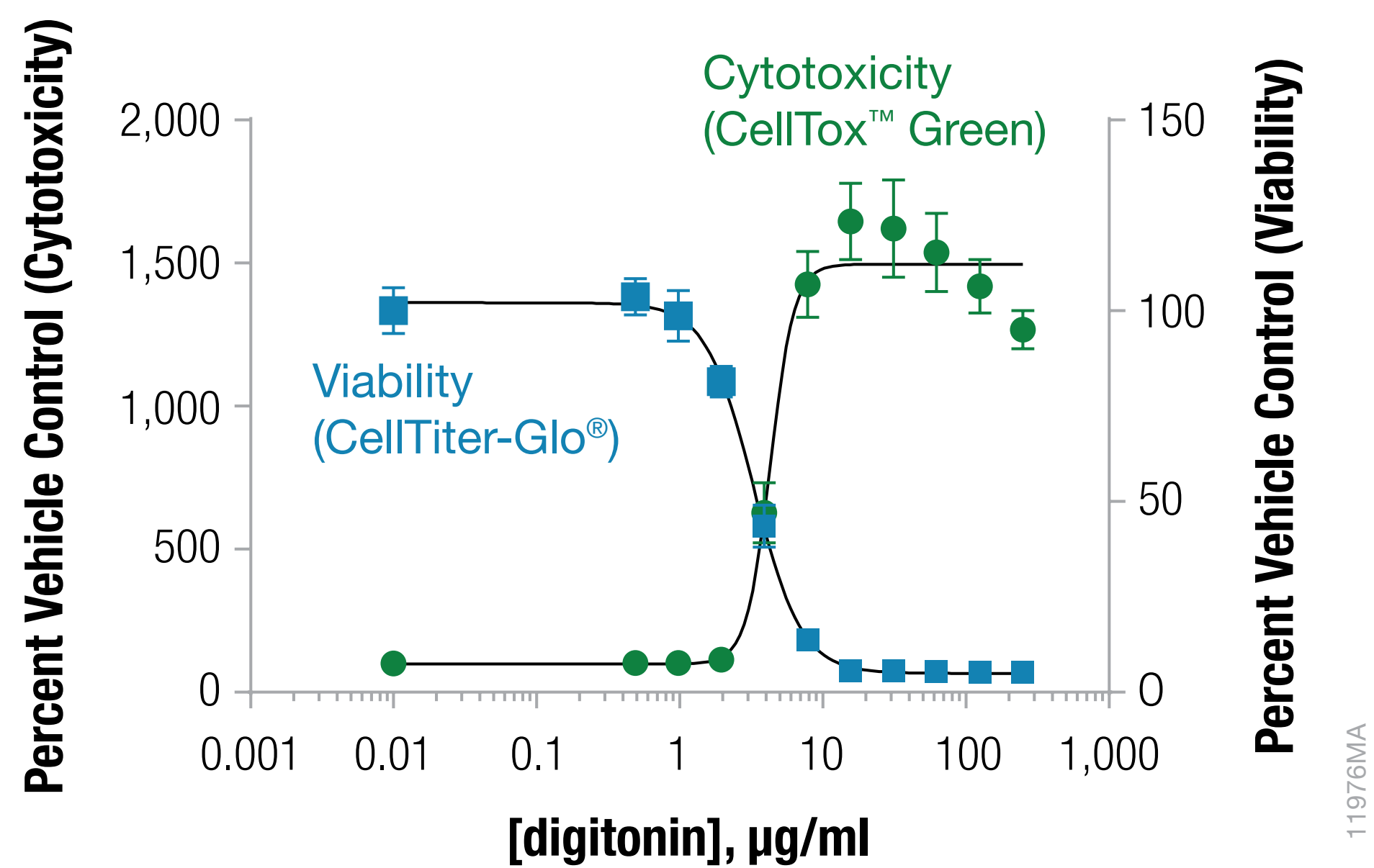




Versatility and Performance

Multiplex Assays

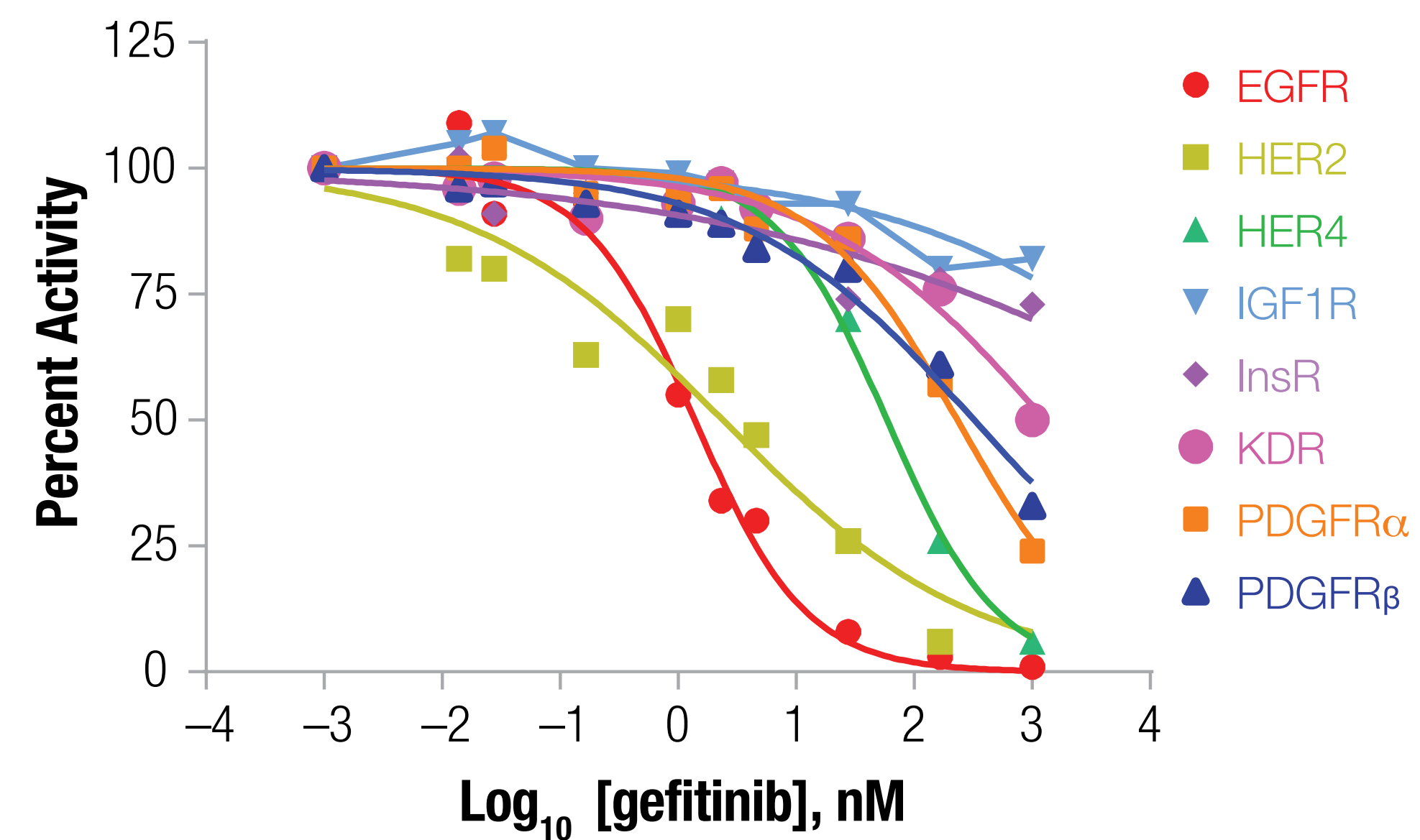
Easily read multiplexed cell viability, apoptosis and cytotoxicity assays.



Multiplexed cytotoxicity and viability assays performed on digitonin-treated K562 cells.

Screen Kinase Inhibitors

Efficiently read the output of kinase inhibitor screening and automatically analyze results.



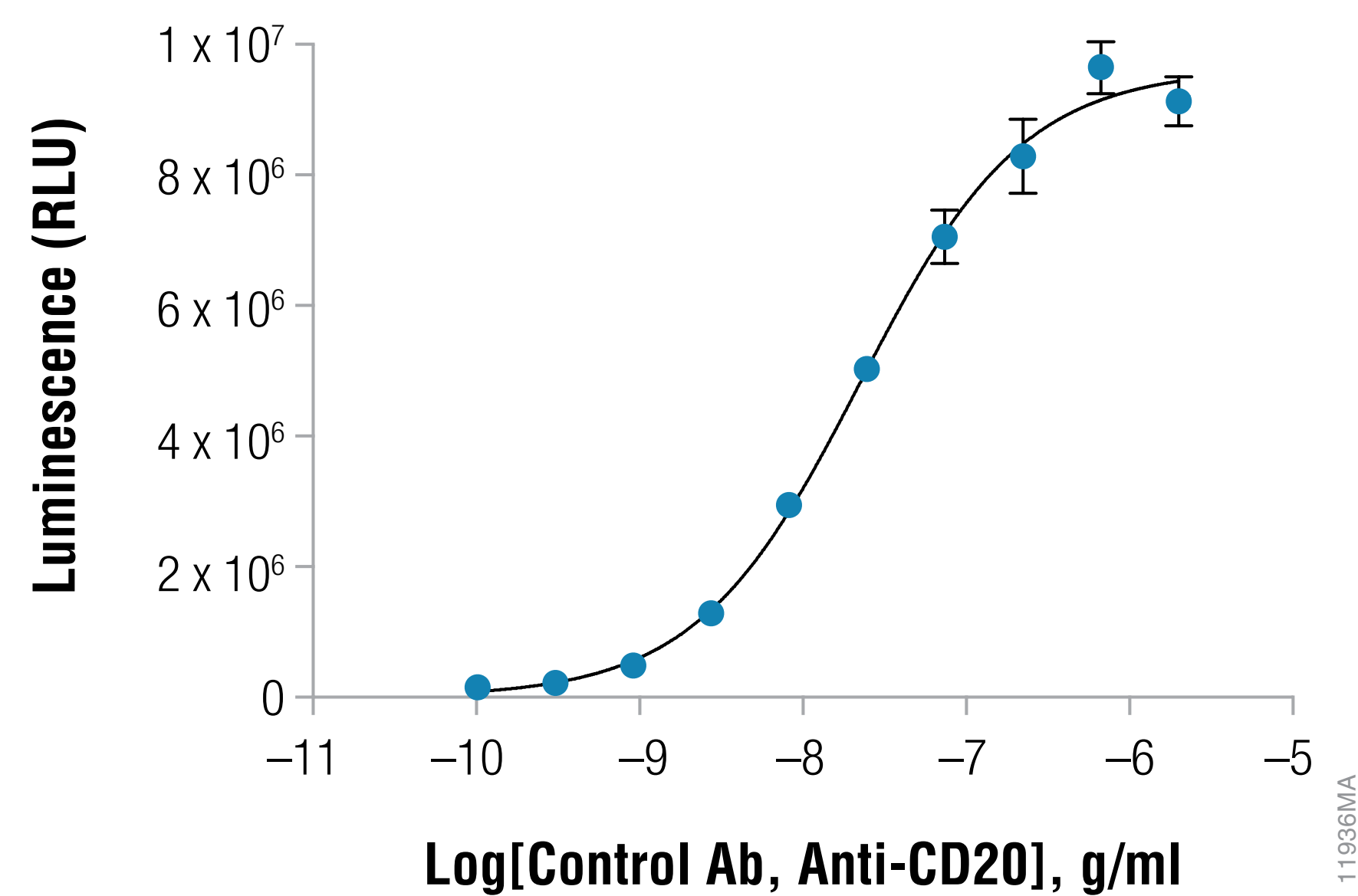
Receptor tyrosine kinase inhibition was assessed following incubation with gefitinib, a selective inhibitor of EGFR, using the ADP-Glo™ Kinase Assay.



State-of-the-Art Sensitivity

Assess Reporter Bioassays

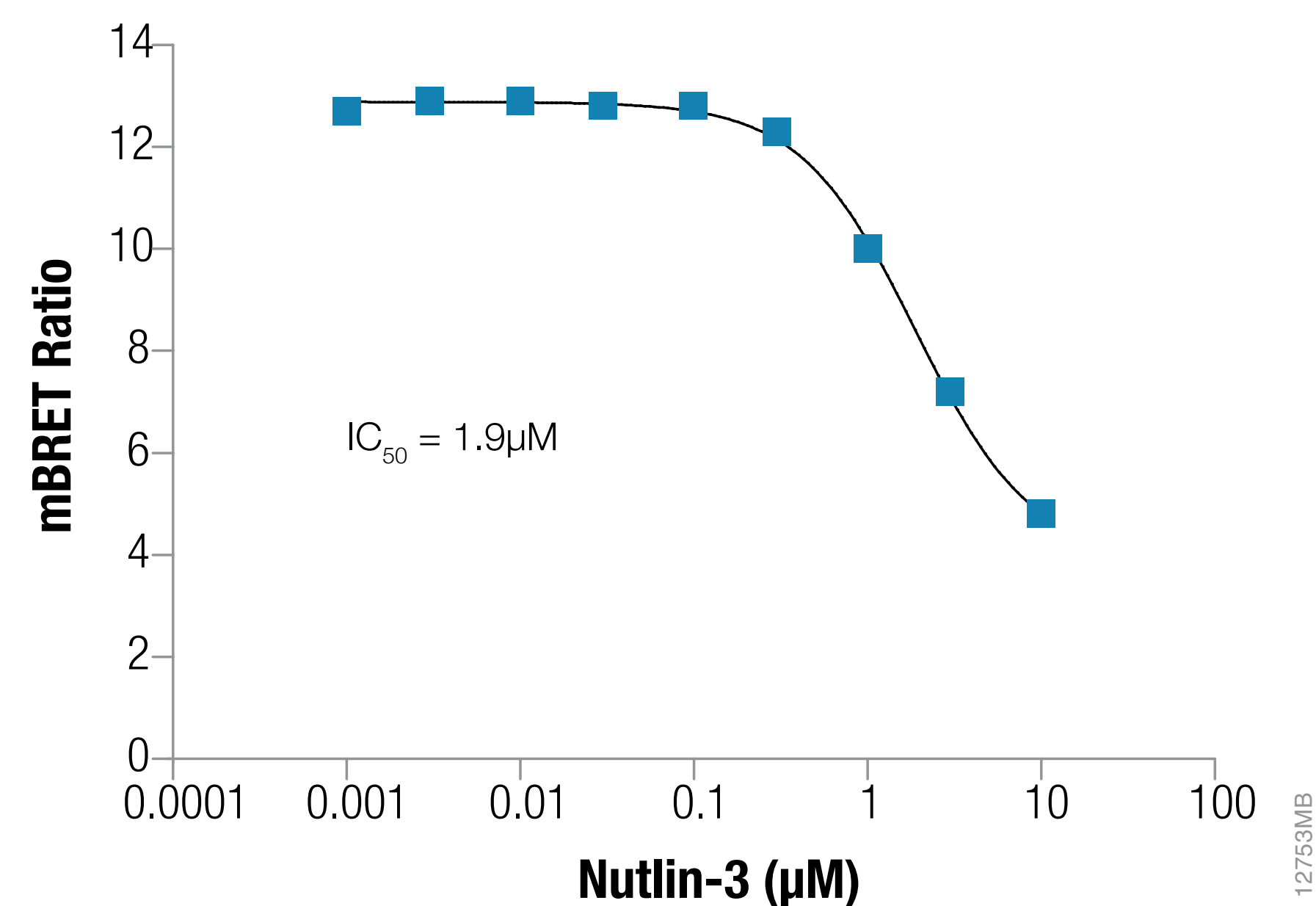
Detect luminescence from Promega bioassays and evaluate mAb activity.



ADCC Bioassay Target cells were incubated with a series of concentrations of Control Ab, Anti-CD20, followed by addition of ADCC Bioassay Effector Cells.

Study Protein:Protein Interactions

Analyze the interaction of proteins using BRET.



A dose-response curve showing the disruption of the p53 and MDM2 interaction using the inhibitor Nutlin-3 in a NanoBRET™ assay.

Flexible Workflow

Use on a bench top or integrate into your automated workflow for higher throughput and walk-away operation.

Automation Ready

Controlable by third-party scheduling software with liquid handling and plate stackers. The software is SiLA compatible, making integration device control simple as standards evolve.

SiLA Rapid Integration®

Third Party Integration

Can be integrated with:

- Tecan Freedom EVO®
- Hudson Robotics Solo™
- PlateCraneEX™
- Hamilton Microlab® STAR series
- many other hardware systems





Single-Source Service and Support

Backed by a comprehensive one-year standard warranty, and our expert technical and service support teams.

One Call Supports It All

We supply the reagents and the instrument, so our expert technical support can answer all your questions.

Additional support ensures minimal downtime when service is needed:

- Instrument loan program
- Service packages
- Extended warranty

Learn more about our extensive service products at:

www.promega.com/GloMaxService

GloMax[®] Systems Specifications

Luminescence

- Low-noise PMT ensures collected light is not compromised
- 10 to 1,000 times more sensitive than competitor instruments
- No need to dilute samples or manage gain settings
- 2 to 3 logs more usable data than competing instruments
- Filtered luminescence readout for BRET or multi-wavelength distinction (for GloMax[®] Discover only) or total luminescence
- Lower cross talk for more usable data
- Five filters included for BRET and filtered luminescence assays such as NanoBRET[™], *Renilla*/YFP BRET and Chroma-Glo[™] (for GloMax[®] Discover only)
- Or, customize all 5 luminescence filters to your needs (for GloMax[®] Discover only)

Luminescence Module Specifications

Detector	Top-reading, head-on photon counting photomultiplier tube (PMT)
Wavelength Range	350–700nm
Detection Limit	3×10^{-21} moles of luciferase
Linear Dynamic Range	9 logs
Cross talk	Less than 3×10^{-5} (white, 96-well plate, Corning 3912)
Filtered Luminescence	GloMax [®] Discover: built-in filter paddle
Dynamic Range	9 logs
Sensitivity	3×10^{-21} moles of luciferase

GloMax[®] Systems Specifications

Fluorescence

- Uses powerful wavelength-matched, light-emitting diodes (LED) as excitation sources
- LEDs closely match excitation profiles of commonly used fluorescent molecules to ensure high sensitivity
- Reduces nonspecific light leakage, a common problem when using broad-spectrum light sources
- Five excitation and emission filters included for common fluorescence assays; plus 1 customizable excitation and emission position
- Or, customize two fluorescence excitation positions or all 6 emission positions to your needs

Fluorescence Module Specifications

Detector	PIN-photodiode
Light Source	Wavelength-matched LED
Read Position	Top reading
Wavelengths selection	Filter module with 5 standard excitation and emission filters. Empty filter positions are available for custom excitation and emission wavelengths.
Wavelengths included	UV (Ex: 365nm, Em: 415–445nm) Blue (Ex: 475nm, Em: 500–550nm) Green (Ex: 525nm, Em: 580–640nm) Red (Ex: 625nm, Em: 660–720nm) AFC (Ex: 405nm, Em: 495–505nm)
Detection Limit	2fmol fluorescein/200µl
Linear Dynamic Range	>6 logs (assay dependent)

GloMax[®] Systems Specifications

Absorbance

- GloMax[®] Discover comes factory installed with 9 UV-Visible filters for common colorimetric assays
- GloMax[®] Explorer GM3500 comes factory installed with 5 Visible Absorbance filters
- Ideal for ELISA, protein and nucleic acid assays

UV-Visible Absorbance Module Specifications

Detector	Top-reading, head-on photon counting photomultiplier tube (PMT)
Light Source	Xenon flash lamp
Spectra Range	200–600nm
Filter Wheel	GloMax [®] Discover: 9 absorbance filters included GloMax [®] Explorer: 5 absorbance filters
Wavelengths included	GloMax [®] Discover: 230, 260, 280, 320, 405, 450, 490, 560 and 600nm 10nm bandwidth GloMax [®] Explorer: 405, 450, 490, 560 and 600nm 10nm bandwidth
Detection Limit	0.1 O.D.
Dynamic Range	0–4.0 O.D.

Ordering Information

Product	Size	Cat.#
GloMax [®] Discover System <i>Configured with Luminescence, Fluorescence and UV-Visible Absorbance</i>	1 each	GM3000*
GloMax [®] Explorer System <i>Configured with Luminescence, Fluorescence and Absorbance</i>	1 each	GM3500*
GloMax [®] Explorer System <i>Configured with Luminescence and Fluorescence</i>	1 each	GM3510*

*Comes with U.S. Instrument and Tablet PC power cords.

Accessories and Upgrades

Product	Size	Cat.#
GloMax [®] Dual Injectors with Pump Station	1 each	GM3030
GloMax [®] Discover Luminescence Filter Paddle	1 each	GM3011
GloMax [®] Discover Fluorescence Filter Paddle	1 each	GM3012
GloMax [®] Discover Inner and Outer Injector Tubing, Natural	1 each	GM3014
GloMax [®] Discover Inner and Outer Injector Tubing, Black	1 each	GM3015
GloMax [®] Explorer Visible Absorbance Module Upgrade	1 each	GM3520
GloMax [®] Explorer GM3500 Upgrade to GloMax [®] Discover GM3000 <i>(only available for GM3500 model)</i>	1 each	GM3530
GloMax [®] Explorer GM3510 Upgrade to GloMax [®] Discover GM3000 <i>(only available for GM3510 model)</i>	1 each	GM3540

Products may be covered by pending or issued patents or may have certain limitations. Please visit our Web site for more information.

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To see the full line of GloMax[®] Instruments, visit www.promega.com/GloMaxSystems



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