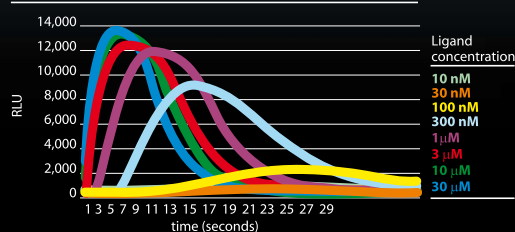


Exit the dark with Photina®

A new and powerful tool for Ca²⁺ mobilization assays

- Novel chimeric Ca²⁺ activated photoprotein
- Strongly performs in mammalian cells e.g. CHO, HEK293 cells
- Available as mitochondrial or cytoplasmic version
- Applicable for functional assay of:
 - GPCRs
 - Voltage-gated ion channels permeable to Ca²⁺
 - Ligand-gated ion channels permeable to Ca²⁺
 - Na⁺/Ca²⁺ exchangers

CHO Mito-Photina®/P2X1 receptor (ion channel)
dose response curve to $\alpha\beta$ meATP on CyBi®-Lumax using 500 cells/well



Photina® advantages

- Functional homogenous assay
- Robust assay
 - no influence by DMSO up to 2%
 - strong signal
- No background
- Few cells required:
 - 250 - 1,500 for 384 MTP
 - 250 - 2,000 for 1536 MTP
- Good correlation with fluorescent dyes
- Affinity to Ca²⁺ in the low μ M range
- Validated on most leading HTS instruments
- Detects agonists, antagonists, partial agonists
- Suitable for cells growing in adhesion or in suspension

CHO Mito-Photina®/Adenosin 3 receptor (GPCR)
dose response curve to IB-MECA on FLIPR[®]ETRA

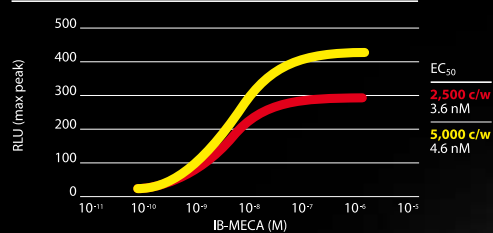


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Axxam

San Raffaele
Biomedical Science Park
Milan, Italy
www.axxam.com

Contact

Europe and ROW
phone +39 02 210561
North America
phone +1 203 878 4436

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