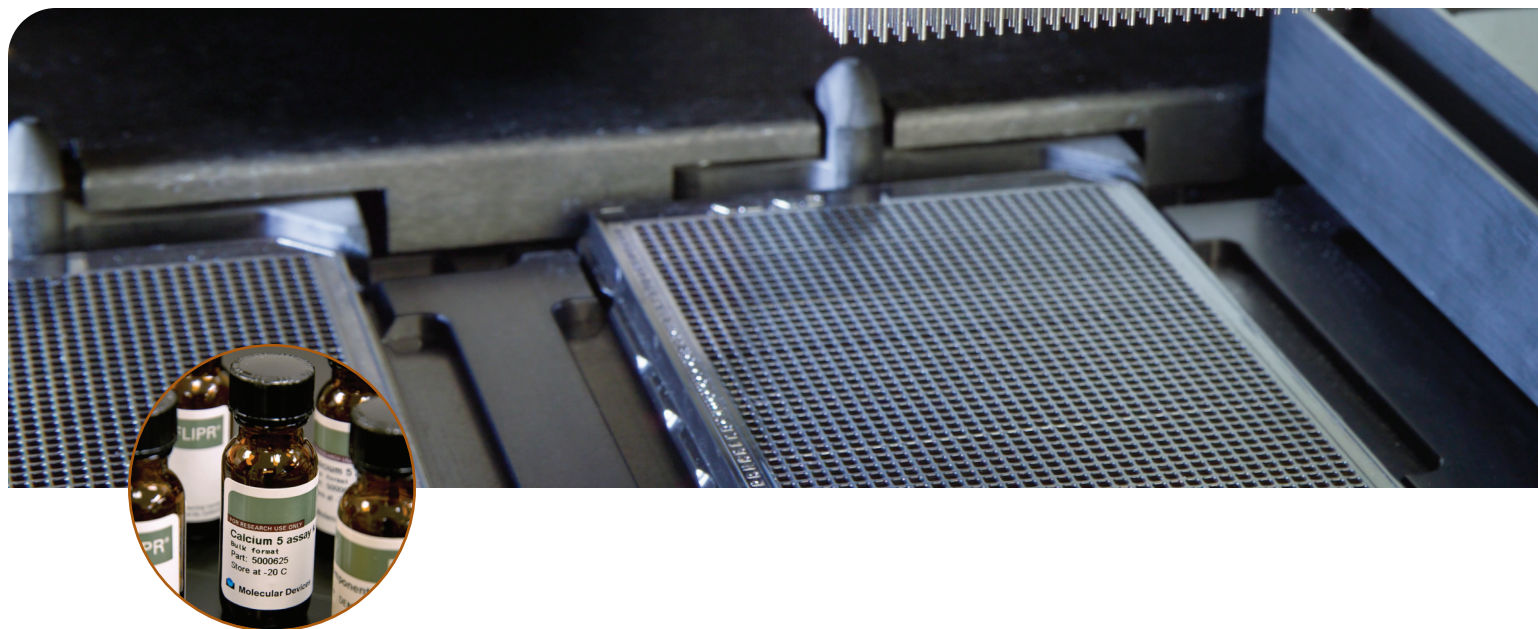


FLIPR[®] Calcium 5 Assay Kit

BEST-IN-CLASS SOLUTION TO SUPPORT HIGH-THROUGHPUT SCREENING OF DIFFICULT TARGETS



- SUPERIOR SIGNAL-TO-NOISE RATIO
- HIGHER THROUGHPUT CAPACITY
- ENHANCED PERFORMANCE
- MIX-AND-READ PROTOCOL
- EASILY AUTOMATABLE ASSAY

The FLIPR[®] Calcium 5 Assay Kit from MDS Analytical Technologies enables researchers to conduct highly sensitive fluorescent screens of G-protein coupled receptors (GPCRs) and ion channels. By using the latest fluorescent indicator dye technology, the assay kit delivers superior signal-to-noise ratio compared to similar commercially available kits for enhanced performance even in difficult assays. In addition, the Calcium 5 Assay Kit leverages the proven quench technology from the FLIPR[®] Calcium 4 Assay Kit as well as the streamlined protocol that is the hallmark of FLIPR[®] Calcium Assays. Building on over a decade of development experience focused on no-wash calcium mobilization assays, MDS Analytical Technologies is confident that the FLIPR Calcium 5 Assay will meet, and likely exceed, your performance expectations for high throughput GPCR and ion channel screening assays.

SUPERIOR SIGNAL-TO-NOISE RATIO

Confidence. With one of the highest—if not the highest—signal-to-noise ratio among similar commercial assays on the market today, you can

be confident in your ability to detect relevant biological signals during your screens. In addition, the FLIPR[®] Calcium 5 Assay Kit can be used in even the most difficult assays, such as those of receptors expressed at low levels, chemokines, allosteric modulators, primary cell lines, and partial agonists. No other calcium mobilization assay on the market today will give you greater confidence in the results of your screens.

HIGHER THROUGHPUT CAPACITY

Productivity. The secret to the streamlined protocol that is the hallmark of FLIPR[®] Calcium Assays lies in the quench technology. The Calcium 5 Assay Kit leverages the same quench technology as the highly successful Calcium 4 Assay Kit to deliver the same streamlined protocol. Our proven quench technology lowers the background signal from extracellular response (Figure 1), eliminating the need to wash cells or remove serum-containing media and therefore minimizing assay preparation time and protocol steps. No other similar assay on the market today will give you greater throughput capacity.



No Wash



Labor Saving



Time Saving



Better Results

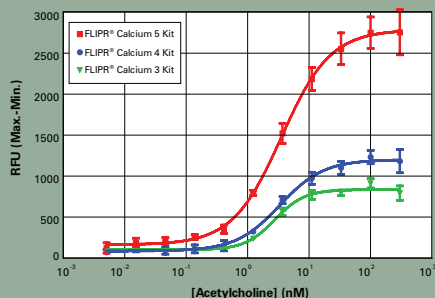


Cost Saving



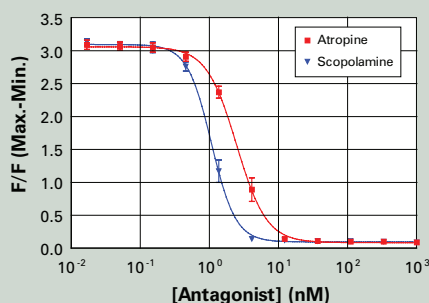
Higher Signal-To-Noise Ratio

FLIPR® Calcium Assay Kit Signal Response (Figure 1)



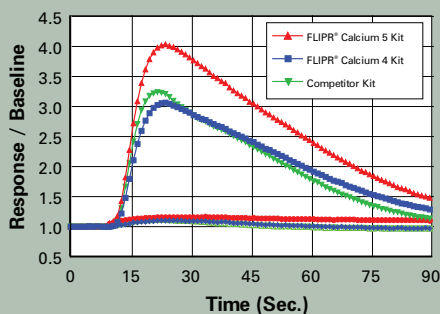
Comparison of fluorescent signal response to calcium flux during acetylcholine agonism of M1 transfected receptor in CHO M1 cells, illustrating the signal-to-noise ratios offered by various FLIPR® assay kits with the quench technology. Notice the improved ratio of the FLIPR Calcium 5 Assay.

Consistency of Results (Figure 2)



Antagonism of calcium flux in response to EC₅₀ acetylcholine in CHO M1 cells evaluated with the FLIPR® Calcium 5 Assay and FLIPR^{TETRA} system, demonstrating performance consistent with previously published data.

Signal Windows of Various Calcium Kits (Figure 3)



ATP agonism of P2Y receptor in HEK 293 cells compared with different calcium mobilization kits. Consistent EC₅₀ values among all kits were recorded with no increase in background. The signal window was substantially larger for the FLIPR® Calcium 5 Assay.

ENHANCED PERFORMANCE, CONSISTENTLY

Reliability. Today's FLIPR® Calcium 5 Assay Kit benefits from more than 10 years of development know-how to deliver a truly reliable assay. Results generated with this assay kit are consistent with previously published data, so you can be assured of a seamless transition (Figure 2) to the Calcium 5 Assay. Also, the Calcium 5 Assay demonstrates consistently higher performance in relation to other similar mix-and-read assays (Figure 3), so you can achieve the best possible response.

The FLIPR Calcium 5 Assay Kit represents the latest advancements in calcium mobilization assays. This kit, like all FLIPR Assay Kits, is compatible with any FLIPR or FlexStation® System from MDS Analytical Technologies, as well as other similar dispense-and-read systems.

To evaluate the kit's performance in your lab, please contact your local sales representative and let the data speak for itself.

ORDERING INFORMATION

FLIPR® Calcium Assay Evaluation Kit

Part Number: R8172

- (3) vials Component A* of Calcium 3 Assay Kit
- (3) vials Component A* of Calcium 4 Assay Kit
- (3) vials Component A* of Calcium 5 Assay Kit
- 1 bottle Component B

*Each reagent vial sufficient for 1 plate (96, 384, 1536)

FLIPR® Calcium 5 Assay Explorer Kit

Part Number: R8185

- (10) vials Component A*
- (1) vial Component B

*Each reagent vial sufficient for 1 plate (96, 384, 1536)

FLIPR® Calcium 5 Assay Bulk Kit

Part Number: R8186

- (10) vials Component A*

*Each reagent vial sufficient for 10 plates (96, 384, 1536)

FLIPR® Calcium 5 Assay Express Kit

Part Number: R8187

- (2) vials Component A*

*Each reagent vial sufficient for 50 plates (96, 384, 1536)

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