

# FluoForte™ ASSAY KIT

## BRILLIANT RESULTS FOR CALCIUM ASSAY DISCOVERY

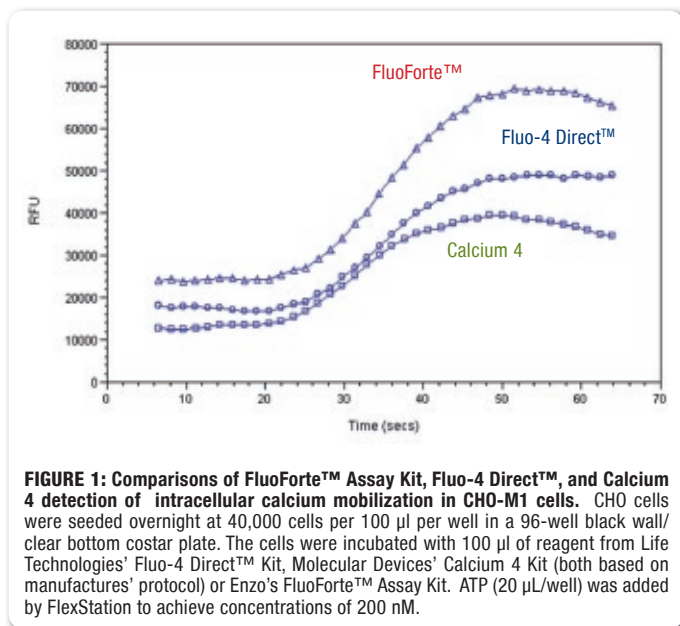
<b>FluoForte™ Calcium Assay Kit (starter pack)</b>	ENZ-51017	10 x 96-well plates
<b>FluoForte™ Calcium Assay Kit (high-throughput)</b>	ENZ-51016	100 x 96-well plates
<b>FluoForte™ Reagent</b>	ENZ-52014	5 x 50 µg
	ENZ-52015	1 mg

### HIGHLIGHT

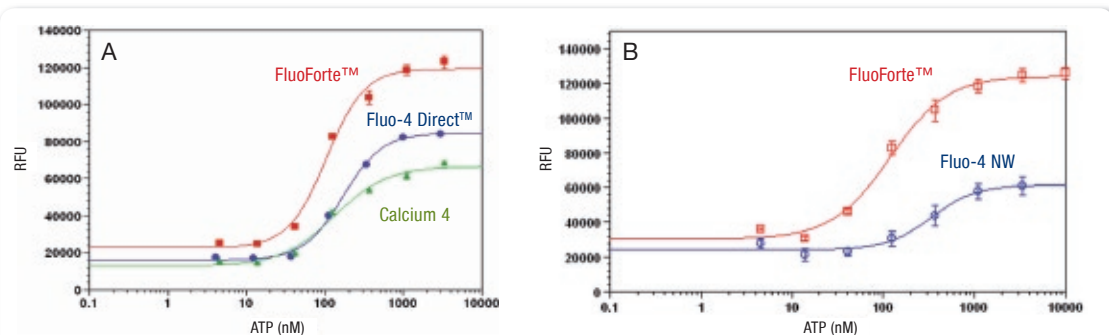
- Homogeneous mix-and-read, no-wash calcium mobilization assay
- Load dye in live cells at 37°C or even room temperature for easier automation
- Broadly applicable to both GPCR and calcium ion channel targets
- Significantly brighter fluorescence intensity than competitors' no-wash kits
- Provides comparable EC<sub>50</sub> values as obtained using Fluo-3, Fluo-4 and FLIPR® Calcium 4 assay kits
- No quencher dye, so no potential interference from compound receptor-ligand interactions
- Larger assay window than other dyes, allows measurements of challenging cell lines and receptors
- Stringently manufactured, to control and eliminate non-specific assay artifacts

Utilizing the brightest and most sensitive fluorescent Ca<sup>2+</sup> indicator, Enzo's FluoForte™ Calcium Assay kit provides much higher signal intensity and the largest assay window on the market. This homogeneous fluorescence-based assay kit detects calcium mobilization across a broad spectrum of biological targets. The easy-to-use protocol does not require a wash step or exogenous addition of a quencher dye, which could adversely affect receptor-ligand interaction kinetics. The assay can be performed in a convenient 96-well or 384-well microplate format and easily adapts to automation.

Enzo Life Sciences' FluoForte™ dye offers superior measurement of challenging cell lines and receptors; unlike other widely used calcium ion indicators in high-throughput screening applications; Fluo-3, Fluo-4 and Calcium 4 dyes have relatively weak fluorescence signals limiting their application in these instances.



**FIGURE 1: Comparisons of FluoForte™ Assay Kit, Fluo-4 Direct™, and Calcium 4 detection of intracellular calcium mobilization in CHO-M1 cells.** CHO cells were seeded overnight at 40,000 cells per 100 µl per well in a 96-well black wall/clear bottom costar plate. The cells were incubated with 100 µl of reagent from Life Technologies' Fluo-4 Direct™ Kit, Molecular Devices' Calcium 4 Kit (both based on manufactures' protocol) or Enzo's FluoForte™ Assay Kit. ATP (20 µL/well) was added by FlexStation to achieve concentrations of 200 nM.



**FIGURE 2: ATP Dose Response Curves in CHO-M1 cells.** CHO cells were seeded overnight at 40,000 cells per 100  $\mu$ l per well in a 96-well black wall/clear bottom microplate. (A) The cells were incubated with 100  $\mu$ l of reagent from Life Technologies' Fluo-4 Direct Kit™, Molecular Devices' Calcium 4 Kit (both based upon manufacturer's protocol) or Enzo's FluoForte™ dye (B) The cells were incubated with reagent from Enzo's FluoForte™ Calcium Assay Kit, or with Life Technologies' Fluo-4 NW Kit (based upon manufacturer's protocol). ATP (20  $\mu$ l/well) was added by FlexStation to achieve the final indicated concentrations. No significant difference in  $EC_{50}$  of ATP for FluoForte™ Assay Kit, Fluo-4 Direct™ and Calcium 4 was observed (shown in A), and also comparable  $EC_{50}$  values were observed between FluoForte™ Assay Kit and Fluo-4 NW (shown in B). In all cases FluoForte™ Assay Kit generated the highest intensity signal.

## Related Products

Product	Prod. No.	Size
<b>Calcein (Ultra Pure)</b>	ENZ-52001	100 mg
<b>Calcein AM (Ultra Pure)</b>	ENZ-52002	1 mg
<b>Calcein Blue (Ultra Pure)</b>	ENZ-52003	250 mg
<b>Fluo-3 AM (Ultra Pure)</b>	ENZ-52004	1 mg
<b>Fluo-3 (Ultra Pure)</b>	ENZ-52005	1 mg
<b>FURA-2 AM (Ultra Pure)</b>	ENZ-52006	1 mg
<b>FURA-2 (Ultra Pure)</b>	ENZ-52007	1 mg
<b>INDO-1 AM (Ultra Pure)</b>	ENZ-52008	1 mg
<b>INDO-1 (Ultra Pure)</b>	ENZ-52009	1 mg
<b>Rhod-2 AM (Ultra Pure)</b>	ENZ-52010	1 mg
<b>Rhod-2 (Ultra Pure)</b>	ENZ-52011	1 mg
<b>Quin-2 AM (Ultra Pure)</b>	ENZ-52012	1 mg
<b>Quin-2 (Ultra Pure)</b>	ENZ-52013	5 mg

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