

Product Datasheet

Rhod-FF AM (orb1984970)

Description

Rhod-FF AM is a cell-permeant acetoxymethyl ester of the fluorescent calcium indicator rhod-FF. As rhod-FF AM enters cells, it is hydrolyzed by intracellular esterases to produce rhod-FF. Rhod-FF is a difluorinated analog of the cell-impermeant calcium indicator rhod-2. It has a very low affinity for calcium ($K_d = 320 \mu\text{M}$). Low affinity calcium indicators are particularly useful for studying compartments with high concentrations of calcium, such as endoplasmic reticulum, where high affinity dyes will be insensitive to luminal fluctuations. Rhod-FF has excitation/emission maxima of approximately 552 and 580 nm, respectively.

Storage

-20°C

Note

For research use only

Formula $\text{C}_{51}\text{H}_{55}\text{BrF}_2\text{N}_4\text{O}_{19}$ **Purity**

98.00%

MW

1145.91

SMILESC/[N+](C)=C1C=CC2=C(C3=CC=C(N(CC(OCOC(C)=O)=O)CC(OCOC(C)=O)=O)C(OCCOC4=C(N(CC(OCOC(C)=O)=O)CC(OCOC(C)=O)=O)C=CC(F)=C4F)=C3)C5=C(C=C(N(C)C)C=C5OC2=C\1.[Br-]**Expiration Date**

12 months from date of receipt.

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