

Product Data Sheet

Product Name: Rhod-FF AM

Cat. No.: GC44835

Chemical Properties

Cas. No.

SMILES CN(C)C(C=C1)=CC2=C1C(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)=C(C=C/5)C(O2)=CC5=[N+](C)\C.[Br-]

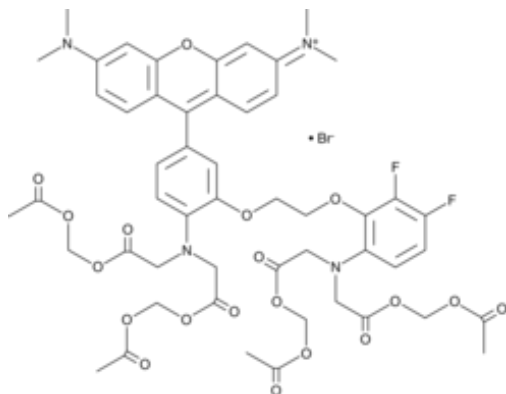
Formula C₅₁H₅₅F₂N₄O₁₉•Br M.Wt 1145.9

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

approximately 552 and 580 nm, respectively.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA