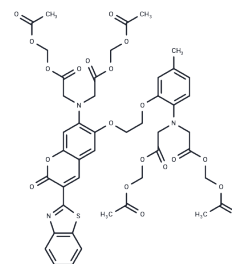


BTC AM

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 176767-94-5 |
| Formula: | C ₄₅ H ₄₅ N ₃ O ₂₀ S |
| Molecular Weight: | 979.91 |
| Storage: | Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|----------------------------|---|
| Description | BTC AM is a cell-permeable acetoxymethyl ester of BTC. As BTC AM enters cells, it is hydrolyzed by intracellular esterases to produce BTC. BTC is a low affinity calcium indicator ($K_d = 7-26 \mu\text{M}$) that displays excitation/emission spectra of 401/529 nm, respectively. It exhibits a shift in the excitation maximum from approximately 480 to 401 nm upon calcium binding, enabling determination of ratiometric calcium measurements. BTC is suitable for detecting elevated calcium levels associated with activation of smooth muscle, neurons, and intracellular calcium stores. |
| Targets(IC ₅₀) | Others |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: Soluble ($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 1.0205 mL | 5.1025 mL | 10.205 mL |
| 5 mM | 0.2041 mL | 1.0205 mL | 2.041 mL |
| 10 mM | 0.1021 mL | 0.5103 mL | 1.0205 mL |
| 50 mM | 0.0204 mL | 0.1021 mL | 0.2041 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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