

RT-AM

Chemical Properties

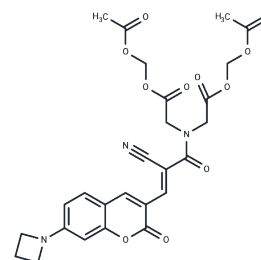
CAS No. :

Formula: C₂₆H₂₅N₃O₁₁

Molecular Weight: 555.49

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	RT-AM is a pro-drug real thiol. Real Thiol is a reversible reaction-based fluorescent probe.
Targets(IC50)	Others
In vitro	The carboxylic acid groups is converted to acetoxymethyl (AM) esters to enhance the cell permeability of Real Thiol, which are hydrolysed by esterases to regenerate Real Thiol inside cells. For cells treated with the RT-AM, real-time ratiometric images of rapid changes in intracellular GSH concentrations can be generated by dividing fluorescence intensity values of the 405 nm channel by the 488 nm channel at each corresponding pixel.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8002 mL	9.0011 mL	18.0021 mL
5 mM	0.360 mL	1.8002 mL	3.6004 mL
10 mM	0.180 mL	0.9001 mL	1.8002 mL
50 mM	0.036 mL	0.180 mL	0.360 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.

Reference

Jiang X, et al. Quantitative real-time imaging of glutathione. Nat Commun. 2017 Jul 13;8:16087.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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