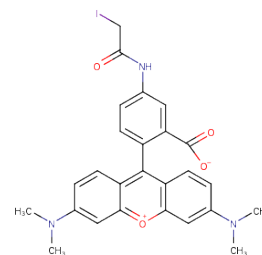


Tetramethylrhodamine-5-iodoacetamide

Chemical Properties

CAS No. :	114458-99-0
Formula:	C ₂₆ H ₂₄ IN ₃ O ₄
Molecular Weight:	569.39
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Tetramethylrhodamine-5-iodoacetamide (5-TMRIA) is a thiol-selective reactive dye that is used to non-specifically label proteins via the cysteine residues and covalently label DNA fragments[1].
Targets(IC50)	Others
In vitro	Tetramethylrhodamine-5-iodoacetamide, at concentrations ranging from 0.5 to 7.5 mM, demonstrates varying effects on the fluorescence labeling of carbonic anhydrase and myoglobin. Initial observations reveal exclusive labeling of the carbonic anhydrase band at low dye concentrations (up to a 40:1 dye:thiol ratio). With increased concentrations, however, both carbonic anhydrase and the less prominent myoglobin band exhibit fluorescence labeling, indicating nonspecific interactions at these dye:thiol ratios[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7563 mL	8.7813 mL	17.5627 mL
5 mM	0.3513 mL	1.7563 mL	3.5125 mL
10 mM	0.1756 mL	0.8781 mL	1.7563 mL
50 mM	0.0351 mL	0.1756 mL	0.3513 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

Tyagarajan K, et al. Thiol-reactive dyes for fluorescence labeling of proteomic samples. *Electrophoresis*. 2003 Jul; 24(14):2348-58.

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