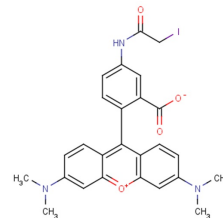


Tetramethylrhodamine-5-iodoacetamide

Chemical Properties

CAS No.:	114458-99-0
Formula:	C ₂₆ H ₂₄ IN ₃ O ₄
Molecular Weight:	569.39
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



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(IC ₅₀)	Others: None
In vitro	Tetramethylrhodamine-5-iodoacetamide (0.5, 1.0, 2.0, 3.0, 4.0, 5.0, and 7.5 mM dye) reveal different results for labeling carbonic anhydrase and myoglobin. At lower dye concentrations (up to 40:1 dye:thiol ratio) fluorescence labeling of only the carbonic anhydrase band is observed. However, as concentration increases, fluorescence labeling of both carbonic anhydrase and the lower myoglobin band is observed. Which indicating nonspecific labeling at these dye:thiol ratios[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.756 mL	8.781 mL	17.563 mL
5 mM	0.351 mL	1.756 mL	3.513 mL
10 mM	0.176 mL	0.878 mL	1.756 mL
50 mM	0.035 mL	0.176 mL	0.351 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481