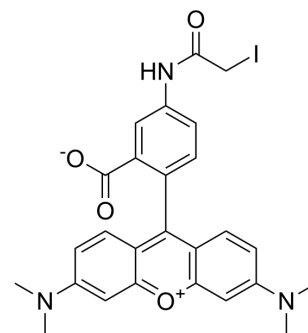


Tetramethylrhodamine-5-iodoacetamide

Cat. No.:	HY-123749
CAS No.:	114458-99-0
Molecular Formula:	C ₂₆ H ₂₄ IN ₃ O ₄
Molecular Weight:	569.39
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tetramethylrhodamine-5-iodoacetamide (5-TMRIA) is a thiol-selective reactive dye that is used to non-specifically label proteins via the cysteine residues. Tetramethylrhodamine-5-iodoacetamide (5-TMRIA) can be used to covalently label DNA fragments ^[1] .
In Vitro	Tetramethylrhodamine-5-iodoacetamide (0.5, 1.0, 2.0, 3.0, 4.0, 5.0, and 7.5 mM dye) shows 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, indicating nonspecific labeling at these dye:thiol ratios ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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

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