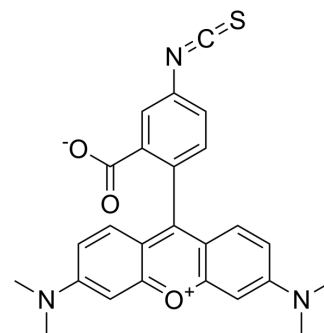


Tetramethylrhodamine-5-isothiocyanate

Cat. No.:	HY-D0153
CAS No.:	80724-19-2
Molecular Formula:	C ₂₅ H ₂₁ N ₃ O ₃ S
Molecular Weight:	443.52
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Tetramethylrhodamine-5-isothiocyanate is a potent fluorescent dye. Tetramethylrhodamine-5-isothiocyanate can be used for label PG-M3 antibody for rapid diagnosis of acute promyelocytic leukemia (APL). Tetramethylrhodamine-5-isothiocyanate can be used as probe to quantify in vivo the biodistribution of PLGA (poly(lactic-co-glycolic) acid) and PLGA/chitosan nanoparticles^{[1][2]}.

REFERENCES

- [1]. Alayed KM, et al. Immunostaining for rapid diagnosis of acute promyelocytic leukemia with the tetramethylrhodamine-5-isothiocyanate-conjugated anti-promyelocytic leukemia monoclonal antibody PG-M3. Arch Pathol Lab Med. 2013 Nov;137(11):1669-73.
- [2]. Navarro SM, et al. Biodistribution of PLGA and PLGA/chitosan nanoparticles after repeat-dose oral delivery in F344 rats for 7 days. Ther Deliv. 2014 Nov;5(11):1191-201.

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

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