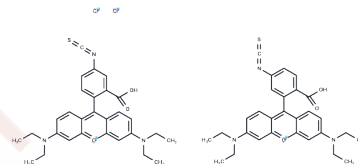


Rhodamine B isothiocyanate

Chemical Properties

CAS No. :	944130-99-8
Formula:	C ₅₈ H ₆₀ Cl ₂ N ₆ O ₆ S ₂
Molecular Weight:	1072.17
Storage:	Keep away from direct sunlight Store at -20°C <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Rhodamine B isothiocyanate (mixed isomers) is an orange-red fluorescent dye exhibiting cell permeability, capable of amine coupling with proteins and antibodies. With excitation/emission wavelengths of 570/595 nm, it is suitable for fluorescence microscopy and flow cytometry.
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 8 mg/mL (7.46 mM), Sonication is recommended. Ethanol: 5 mg/mL (4.66 mM), Sonication is recommended. DMSO: 5 mg/mL (4.66 mM), Sonication is recommended. DMF:PBS (pH 7.2)(1:3): < 0.1 mg/mL (insoluble), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9327 mL	4.6634 mL	9.3269 mL
5 mM	0.1865 mL	0.9327 mL	1.8654 mL
10 mM	0.0933 mL	0.4663 mL	0.9327 mL
50 mM	0.0187 mL	0.0933 mL	0.1865 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mao SY, Mullins JM. Conjugation of fluorochromes to antibodies. *Methods Mol Biol.* 2010;588:43-8.

Nuschke AC, et al. Assessment of retinal ganglion cell damage in glaucomatous optic neuropathy: Axon transport, injury and soma loss. *Exp Eye Res.* 2015 Dec;141:111-24.

Jiang Z, et al. Multifunctional Au@mSiO₂/rhodamine B isothiocyanate nanocomposites: cell imaging, photocontrolled drug release, and photothermal therapy for cancer cells. *Small.* 2013 Feb 25;9(4):604-12.

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