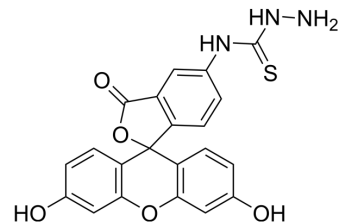


Fluorescein-5-thiosemicarbazide

Cat. No.:	HY-D0099
CAS No.:	76863-28-0
Molecular Formula:	C ₂₁ H ₁₅ N ₃ O ₅ S
Molecular Weight:	421.43
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (296.61 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3729 mL	11.8644 mL	23.7287 mL
	5 mM	0.4746 mL	2.3729 mL	4.7457 mL
	10 mM	0.2373 mL	1.1864 mL	2.3729 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Fluorescein-5-thiosemicarbazide is a amine containing fluorescent probe that can be used for labeling saccharides and protein carbonyl derivatives^{[1][2]}.

REFERENCES

- [1]. Zhang Y, et al. One-pot fluorescent labeling of saccharides with fluorescein-5-thiosemicarbazide for imaging polysaccharides transported in living cells. *Carbohydr Res.* 2011 Oct 18;346(14):2156-64.
- [2]. Havé M, et al. Protein carbonylation during natural leaf senescence in winter wheat, as probed by fluorescein-5-thiosemicarbazide. *Plant Biol (Stuttg).* 2015 Sep;17(5):973-9.

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

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