

Dansyl glutathione

Chemical Properties

CAS No. : 75017-02-6

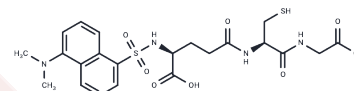
Formula: C₂₂H₂₈N₄O₈S₂

Molecular Weight: 540.61

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dansyl glutathione is a fluorescent trapping agent and a dansyl-labeled glutathione derivative. It enhances LC-MS/MS sensitivity for reactive metabolite identification in toxicity screening.
Targets(IC50)	Others
In vitro	Dansyl glutathione acts as a robust nucleophile in human liver microsomes to trap transient electrophilic metabolites generated by CYP450 [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (147.98 mM), Sonication is recommended. H ₂ O: 40 mg/mL (73.99 mM), 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	1.8498 mL	9.2488 mL	18.4976 mL
5 mM	0.370 mL	1.8498 mL	3.6995 mL
10 mM	0.185 mL	0.9249 mL	1.8498 mL
50 mM	0.037 mL	0.185 mL	0.370 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

Gan J, et al. In vitro screening of 50 highly prescribed drugs for thiol adduct formation--comparison of potential for drug-induced toxicity and extent of adduct formation. Chem Res Toxicol. 2009 Apr;22(4):690-8.
a b c "Hoechst Stains". Invitrogen (Molecular Probes).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481