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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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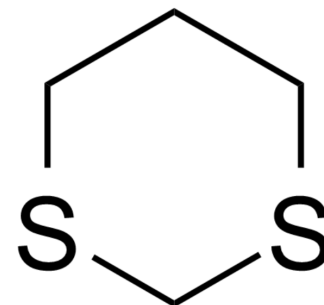
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1,3-Dithiane

Cat. No.:	HY-W001189
CAS No.:	505-23-7
Molecular Formula:	C ₄ H ₈ S ₂
Molecular Weight:	120.24
Target:	Endogenous Metabolite; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (831.67 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	8.3167 mL	41.5835 mL	83.1670 mL
			5 mM	1.6633 mL	8.3167 mL	16.6334 mL
			10 mM	0.8317 mL	4.1583 mL	8.3167 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (20.79 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (20.79 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (20.79 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	1,3-Dithiane is a protected formaldehyde anion equivalent that could serve as a useful labeled synthon ^[1] . 1,3-Dithiane is also a sulfur-containing Maillard reaction products (MRPs) found in boiled beef extracts. 1,3-Dithiane shows a potent direct-acting mutagenicity toward <i>S. typhimurium</i> TA98 and TA100 ^[2] .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Lee H, et al. Genotoxicity of 1,3-dithiane and 1,4-dithiane in the CHO/SCE assay and the Salmonella/microsomal test. *Mutat Res.* 1994 Jun;321(4):213-8.

[2]. Martinez RA, et al. Synthesis of isotopically labeled 1,3-dithiane. *J Labelled Comp Radiopharm.* 2014 May 15;57(5):338-41.

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

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