

Sodium Hydrogen Sulfide (hydrate)

Chemical Properties

CAS No. :	207683-19-0		
Formula:	H3NaOS		
Molecular Weight:	74.07	H ₂ O	HS — Na
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	Sodium Hydrogen Sulfide (hydrate) is, like nitric oxide, an important gaseous mediator that has significant effects on the immunological, neurological, cardiovascular and pulmonary systems of mammals. Sodium Hydrogen Sulfide (hydrate) is an H ₂ S donor commonly used in cellular and whole animal experimental systems. For example, it has been used to suggest that H ₂ S promotes neutrophil migration, reduces airway inflammation, and protects neurites, heart, and intestine from chemical or ischemic-reperfusion damage.
Targets(IC50)	Others

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (135.01 mM),Sonication is recommended. DMSO: 1.84 mg/mL (24.84 mM),Sonication is recommended. Ethanol: 3 mg/mL (40.5 mM),Sonication is recommended. DMF: 3 mg/mL (40.5 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	13.5007 mL	67.5037 mL	135.0074 mL
5 mM	2.7001 mL	13.5007 mL	27.0015 mL
10 mM	1.3501 mL	6.7504 mL	13.5007 mL
50 mM	0.270 mL	1.3501 mL	2.7001 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

Yamamoto J, et al. Distribution of hydrogen sulfide (H₂S)-producing enzymes and the roles of the H₂S donor sodium hydrosulfide in diabetic nephropathy. Clin Exp Nephrol. 2013 Feb;17(1):32-40.

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