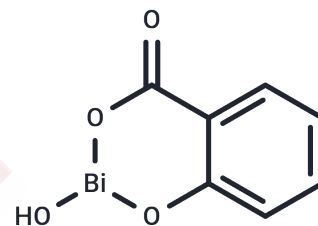


## Bismuth Subsalicylate

## Chemical Properties

CAS No. :	14882-18-9
Formula:	C <sub>7</sub> H <sub>5</sub> BiO <sub>4</sub>
Molecular Weight:	362.09
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Bismuth Subsalicylate (Bismuth subsalicylat) is the active ingredient in the popular medication Pepto-Bismol that is used to treat nausea, heartburn, indigestion, upset stomach, diarrhea, and other temporary discomforts of the stomach and gastrointestinal tract.
Targets(IC50)	COX,PGE Synthase
In vivo	Bismuth Subsalicylate is metabolized in the gastrointestinal tract into salicylic acid and insoluble bismuth salts. It inhibits Prostaglandin G/H Synthase 1/2 (cyclooxygenase-1/2, COX-1/2), thereby reducing inflammation and irritation of the gastric and intestinal mucosa.

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (75.95 mM),Sonication is recommended. H <sub>2</sub> O: Insoluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7617 mL	13.8087 mL	27.6174 mL
5 mM	0.5523 mL	2.7617 mL	5.5235 mL
10 mM	0.2762 mL	1.3809 mL	2.7617 mL
50 mM	0.0552 mL	0.2762 mL	0.5523 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

Sox TE, et al. Antimicrob Agents Chemother, 1989, 33(12), 2075-2082.

Bierer DW. Rev Infect Dis, 1990, 12 Suppl 1:S3-8.

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