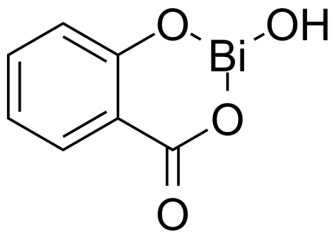
Bismuth Subsalicylate

Cat. No.:	HY-B0550
CAS No.:	14882-18-9
Molecular Formula:	$C_7H_5BiO_4$
Molecular Weight:	362.09
Target:	PGE synthase
Pathway:	Immunology/Inflammation
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : < 1 mg/mL (insoluble or slightly soluble) H_2O : < 0.1 mg/mL (insoluble)

BIOLOGICAL ACTIVITY

Description	Bismuth Subsalicylate is a potent and orally active antacid and anti-diarrheal agent. Bismuth Subsalicylate reduces inflammation/irritation of stomach and intestinal lining through inhibition of prostaglandin synthesis in vivo[1]. Bismuth Subsalicylate is widely used for the research of diarrheal disorders, including indigestion, diarrhoea, nausea, et al[1][2].
In Vivo	In the gastrointestinal tract, Bismuth Subsalicylate can be converted to salicylic acid and insoluble bismuth salts. Salicylic acid reduces inflammation/irritation of stomach and intestinal lining through inhibition of prostaglandin G/H synthase 1/2[1] . Bismuth Subsalicylate (oral gavage; 100 mg/kg-350 mg/kg) significantly decreases castor oil-induced movement of a charcoal test meal along the small intestine of the mouse and rat and also decreases both the fecal output (dry or wet weight) and the frequency of diarrhea in mice[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bismuth subsalicylate. Drug.bank

[2]. Alejandra Orona-Ortiz, et al. Mucoadhesive effect of Curcuma longa extract and curcumin decreases the ranitidine effect, but not bismuth subsalicylate on ethanol-induced ulcer model. Sci Rep. 2019 Nov 12;9(1):16622.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA