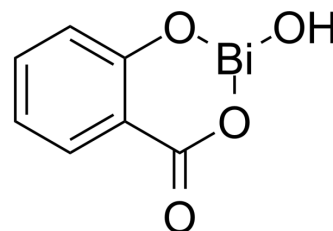


Bismuth Subsalicylate

Cat. No.:	HY-B0550
CAS No.:	14882-18-9
Molecular Formula:	C ₇ H ₅ BiO ₄
Molecular Weight:	362.09
Target:	PGE synthase
Pathway:	Immunology/Inflammation
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 2 years</div> <div>-20°C 1 year</div>



SOLVENT & SOLUBILITY

In Vitro	DMSO : < 1 mg/mL (insoluble or slightly soluble) H ₂ O : < 0.1 mg/mL (insoluble)
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BIOLOGICAL ACTIVITY

Description	<p>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]}.</p>
In Vivo	<p>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].</p> <p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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.

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