
Product Data Sheet

Product Name: Bismuth Subsalicylate

Cat. No.: GC17707

Chemical Properties

Cas. No. 14882-18-9

Chemical Name 1,3,2λ2-benzodioxabismin-4-one;hydrate

SMILES C1=CC=C2C(=C1)C(=O)O[Bi]O2.O

Formula $C_7H_5BiO_4$ M.Wt 362.09

Solubility <3.62mg/mL in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Bismuth Subsalicylate is the active ingredient in Pepto-Bismol and inhibits prostaglandin G/H Synthase 1/2. Target: Others Bismuth Subsalicylate reduces inflammation/irritation of stomach and intestinal lining through inhibition of prostaglandin G/H Synthase 1/2 [1]. Bismuth Subsalicylate is the active ingredient in Pepto-Bismol, an anti-diarrhea medication and antacid. In the gastrointestinal tract, Bismuth Subsalicylate is converted to salicylic acid and insoluble bismuth salts [2]. Bismuth subsalicylate treatment for 8 weeks is safe and well tolerated. This regimen appears to be efficacious for the treatment of microscopic colitis and is worthy of further study in a controlled trial [3].

References:

[1]. Sox, T.E. and C.A. Olson, Binding and killing of bacteria by bismuth subsalicylate. Antimicrob Agents Chemother, 1989. 33(12): p. 2075-82.

[2]. Bierer, D.W., Bismuth subsalicylate: history, chemistry, and safety. Rev Infect Dis, 1990. 12 Suppl 1: p. S3-8.

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

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[3]. Fine, K.D. and E.L. Lee, Efficacy of open-label bismuth subsalicylate for the treatment of microscopic colitis. *Gastroenterology*, 1998. 114(1): p. 29-36.

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