

Product Data Sheet

Product Name: Borocaptate sodium

Cat. No.: GC73084

Chemical Properties

Cas. No. 144885-51-8

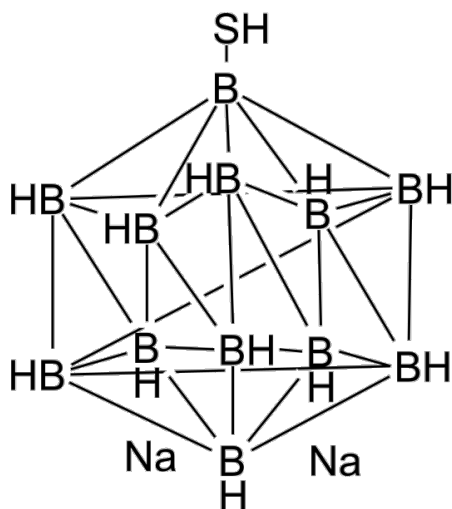
Formula $B_{12}H_{12}Na_2S$ M.Wt 219.87

Solubility H_2O : 175 mg/mL (795.92 mM; Need ultrasonic) Storage $-20^{\circ}C$, stored under nitrogen, away from moisture

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Borocaptate sodium is a boron-containing compound that can be used as a therapeutic agent in boron neutron capture therapy (BNCT), exhibiting anticancer activity.

Borocaptate sodium (60 μg $10B/mL$, 24 hours) combined with BSO enhances boron uptake and

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inhibits cell viability in mouse squamous carcinoma cells, rat glioma cells, and hamster lung cells, with boron uptake increasing as cell viability decreases[3].

Borocaptate sodium (55 mg/kg, i.v., single dose) selectively targets intracranial tumors in dogs and inhibits their growth[2].

References:

- [1]. Bendel P, et al. Optimal detection of the neutron capture therapy agent borocaptate sodium (BSH): A comparison between and NMR[J]. Medical Psics, 2001, 28(2): 178-183.
- [2]. Kraft SL, et al. Borocaptate sodium: a potential boron delivery compound for boron neutron capture therapy evaluated in dogs with spontaneous intracranial tumors. Proc Natl Acad Sci U S A. 1992 Dec 15;89(24):11973-7.
- [3]. Yoshida F, et al. Enhancement of sodium borocaptate (BSH) uptake by tumor cells induced by glutathione depletion and its radiobiological effect. Cancer Lett. 2004 Nov 8;215(1):61-7.

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