

Product Data Sheet

Product Name: SIBA
Cat. No.: GC33442

Chemical Properties

Cas. No. 35899-54-8

SMILES O[C@@H]([C@H]([C@H](N1C=NC2=C1N=CN=C2N)O3)O)[C@H]3CSCC(C)C

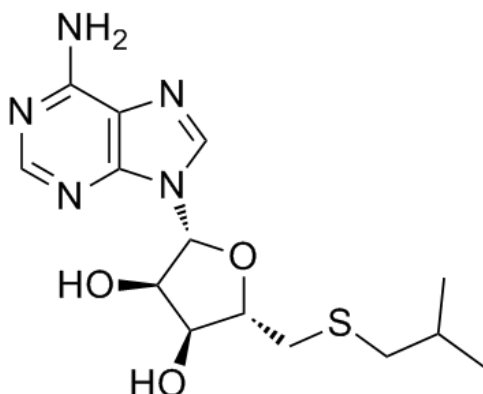
Formula $C_{14}H_{21}N_5O_3S$ M.Wt 339.41

Solubility DMSO : ≥ 100 mg/mL (294.63 mM) 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

SIBA selectively inhibits spermine synthase, $IC_{50}=8$ μM . IC_{50} value: 8 μM Target: spermine synthase SIBA is a powerful antiproliferative drug. SIBA has been reported to inhibit cell transformation induced by oncogenic RNA or DNA viruses, the growth of transformed mouse mammary cells, the mitogen-stimulated blastogenesis of lymphocytes and the capping of herpes virus mRNA 161. It has also been demonstrated that an antimalarial activity is exerted by SIBA against Plasmodium falciparum in cultures.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

[1]. Carteni-Farina M, et al. Studies on the metabolism of 5'-isobutylthioadenosine (SIBA): phosphorolytic cleavage by methylthioadenosinephosphorylase. FEBS Lett. 1979 Aug 15;104(2):266-270. [2]. Lawrence F, et al. Effect of 5'-deoxy-5'-isobutylthioadenosine on putrescine uptake and polyamine biosynthesis by chick embryofibroblasts. Biochem J. 1982 Jun 15;204(3):853-859.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA