

S-(5'-Adenosyl)-L-methionine tosylate

Chemical Properties

CAS No. : 52248-03-0

Formula: C₂₂H₃₀N₆O₈S₂

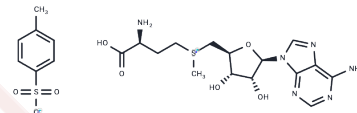
Molecular Weight: 570.64

Storage:

Store at low temperature, Keep away from moisture,
Store under nitrogen

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	S-(5'-Adenosyl)-L-methionine tosylate (SAME) is a ubiquitous methyl donor involved in a wide variety of biological reactions, including those mediated by DNA and protein methyltransferases [1]. S-(5'-Adenosyl)-L-methionine tosylate (SAME) is a stable salt of SAM that is included in nutritional supplements for oral use [2]. S-(5'-Adenosyl)-L-methionine tosylate (SAME) reportedly ameliorates depression, pain associated with osteoarthritis and fibromyalgia, and liver toxicity [3].
Targets(IC50)	Apoptosis,Others,Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 100 mg/mL (175.24 mM),Sonication is recommended. DMSO: 45 mg/mL (78.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7524 mL	8.7621 mL	17.5242 mL
5 mM	0.3505 mL	1.7524 mL	3.5048 mL
10 mM	0.1752 mL	0.8762 mL	1.7524 mL
50 mM	0.035 mL	0.1752 mL	0.3505 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Chiang P. Biological Effects of Inhibitors of S-Adenosylhomocysteine Hydrolase[J]. Pharmacology & Therapeutics, 1998, 77(2):115.
- Jin C, Li Y, Su Y, et al. Novel copper complex CTB regulates methionine cycle induced TERT hypomethylation to promote HCC cells senescence via mitochondrial SLC25A26. Cell death & disease. 2020, 11(10): 1-15.
- Qiao K, Han J, Zhang H, et al. Intratumor Mycoplasma promotes the initiation and progression of hepatocellular carcinoma. Cell Reports. 2023, 42(12).
- Najm W I, Sibylle R, Fred H, et al. S-Adenosyl methionine (SAME) versus celecoxib for the treatment of osteoarthritis symptoms: A double-blind cross-over trial. [ISRCTN36233495][J]. BMC Musculoskeletal Disorders, 2004, 5(1):6.
- Berardis D D, Marini S, Serroni N, et al. S-Adenosyl-L-Methionine Augmentation in Patients with Stage II Treatment-Resistant Major Depressive Disorder: An Open Label, Fixed Dose, Single-Blind Study[J]. The Scientific World Journal, 2013,(2013-5-12), 2013, 2013(5):204649.
- Jin C, Li Y, Su Y, et al. Novel copper complex CTB regulates methionine cycle induced TERT hypomethylation to promote HCC cells senescence via mitochondrial SLC25A26[J]. Cell death & disease. 2020, 11(10): 1-15.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481