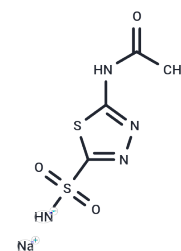


Acetazolamide sodium

Chemical Properties

CAS No. :	1424-27-7
Formula:	C ₄ H ₅ N ₄ NaO ₃ S ₂
Molecular Weight:	244.23
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Acetazolamide sodium (OT-302 sodium) is a potent carbonic anhydrase (CA)IX inhibitor with diuretic, antigonococcal, and antihypertensive activity and may be used for indications such as epilepsy, glaucoma, edema, and altitude sickness.
Targets(IC50)	Antibacterial,Carbonic Anhydrase,Autophagy
In vitro	The combination of Acetazolamide sodium (0-160 μ M) with MS-275 (0.75 μ M) exhibited dose-dependent inhibition of growth, induced cell cycle arrest and apoptosis, and reduced migration ability in NB cell line SH-SY5Y[1].
In vivo	In preclinical xenograft models, treatment with AZ (40 mg/kg), MS-275 (20 mg/kg), and AZ + MS-275 (40 + 20 mg/kg) for 14 days significantly inhibited tumor growth in vivo. The expression of HIF-1 α and CAIX markedly decreased, while apoptosis in NB xenograft cells of SH-SY5Y significantly increased[1].

Solubility Information

Solubility	H ₂ O: 80 mg/mL (327.56 mM),Sonication is recommended. DMSO: 16.67 mg/mL (68.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0945 mL	20.4725 mL	40.945 mL
5 mM	0.8189 mL	4.0945 mL	8.189 mL
10 mM	0.4095 mL	2.0473 mL	4.0945 mL
50 mM	0.0819 mL	0.4095 mL	0.8189 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

Bayat Mokhtari R, et al. Acetazolamide potentiates the anti-tumor potential of HDACi, MS-275, in neuroblastoma. BMC Cancer. 2017 Feb 24;17(1):156.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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