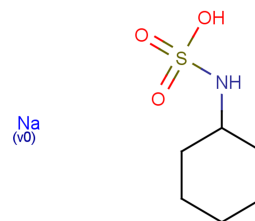


Cyclamic acid sodium

Chemical Properties

CAS No. :	139-05-9
Formula:	C ₆ H ₁₃ NNaO ₃ S
Molecular Weight:	202.23
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cyclamic acid sodium (Cyclohexylsulfamic acid sodium) is a carbonic anhydrase inhibitor and one of the most widely used artificial sweeteners in food and pharmaceuticals. Cyclamic acid sodium shows moderate anticonvulsant activity in a maximal electroshock convulsive seizure model. Cyclamic acid sodium is used in cancer
Targets(IC ₅₀)	Carbonic Anhydrase
In vivo	Cyclamic acid sodium (6000 mg/kg/day; intraperitoneal injection; for 5 days) induced acute DILI mouse model can be established successfully. The toxicity of sodium cyclamate to the liver showed a dose-response and time-response relationship. Cyclamic acid sodium induced liver, heart, and kidney injury are closely related to the inflammatory response mediated by TNF- α and IL-1 β . [2]

Solubility Information

Solubility	H ₂ O: 45.0 mg/mL (223.6 mM), Need ultrasonic DMSO: 18.0 mg/mL (89.5 mM), ultrasonic and warming and heat to 60°C (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9449 mL	24.7243 mL	49.4486 mL
5 mM	0.989 mL	4.9449 mL	9.8897 mL
10 mM	0.4945 mL	2.4724 mL	4.9449 mL
50 mM	0.0989 mL	0.4945 mL	0.989 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.

Reference

Leban I, et al. Structures of artificial sweeteners--cyclamic acid and sodium cyclamate with other cyclamates. Acta Crystallogr B. 2007 Jun;63(Pt 3):418-25.

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:36 Washington Street,Wellesley Hills,MA 02481