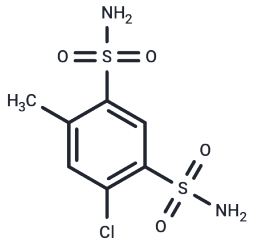
Data Sheet (Cat.No.T60561)

TargetMol

Disulfamide

Chemical Properties



CAS No. : 671-88-5

Formula: C7H9ClN2O4S2

Molecular Weight: 284.74

Storage: 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	Disulfamide is an orally active carbonic anhydrase inhibitor with an IC50 value of 0.07 μM. Disulfamide has a diuretic effect by inhibiting carbonic anhydrase and preventing the reabsorption of sodium and bicarbonate in the proximal convoluted tubules.
Targets(IC50)	Carbonic Anhydrase
In vivo	With a single intraperitoneal injection of 200 mg/kg, disulfamide demonstrates potential blood glucose-raising properties in male Wistar rats[2].

Solubility Information

Solubility	DMSO: 45 mg/mL (158.04 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.512 mL	17.5599 mL	35.1198 mL
5 mM	0.7024 mL	3.512 mL	7.024 mL
10 mM	0.3512 mL	1.756 mL	3.512 mL
50 mM	0.0702 mL	0.3512 mL	0.7024 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

CT Supuran, et al. Carbonic anhydrase inhibitors: Synthesis and inhibitory properties of 1,3,4-thiadiazole-2,5-bissulfonamide. European Journal of Medicinal Chemistry,Volume 31, Issue 11, 1996, Pages 843-846.
J M Foy, et al. Acute diuretic induced hyperglycaemia in rats. Life Sci. 1967 May 1;6(9):897-902.

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