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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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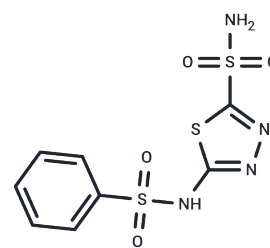
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Benzolamide

Chemical Properties

CAS No. :	3368-13-6
Formula:	C ₈ H ₈ N ₄ O ₄ S ₃
Molecular Weight:	320.37
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Benzolamide (CL 11366) inhibits carbonic anhydrase effectively and low-threshold calcium currents in hippocampal pyramidal neurons.
Targets(IC50)	Carbonic Anhydrase
In vitro	Benzolamide inhibits hCA I, hCA II, EcoCAy and VchCAy, with Kis of 15 nM, 9 nM, 94 nM and 78 nM, respectively[1]. Benzolamide shows selectivity for CAS3 with a Ki of 54 nM over CAS1 with a Ki of 2115 nM and CAS2 with a Ki of 410 nM[2].
In vivo	Administration of 90 µmol/kg Benzolamide decreases brain pH and suppresses electrographic post-asphyxia seizures in rats[3].

Solubility Information

Solubility	DMSO: 250 mg/mL (780.35 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	3.1214 mL	15.607 mL	31.2139 mL
5 mM	0.6243 mL	3.1214 mL	6.2428 mL
10 mM	0.3121 mL	1.5607 mL	3.1214 mL
50 mM	0.0624 mL	0.3121 mL	0.6243 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

Prete SD, et, al. Escherichia coli γ -carbonic anhydrase: characterisation and effects of simple aromatic/heterocyclic sulphonamide inhibitors. J Enzyme Inhib Med Chem. 2020 Dec;35(1):1545-1554.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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