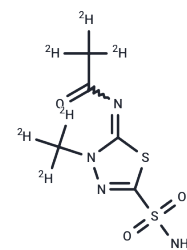


Methazolamide-D6

Chemical Properties

CAS No. :	1795142-30-1
Formula:	C ₅ H ₂ D ₆ N ₄ O ₃ S ₂
Molecular Weight:	242.31
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	Methazolamide-D6 is intended for use as an internal standard for the quantification of methazolamide by GC- or LC-MS. Methazolamide (T0106) is a carbonic anhydrase inhibitor. It reduces intraocular pressure and cerebrospinal fluid flow in a rat model of glaucoma. Methazolamide (T0106) reduces electroshock-induced seizures in rats with an ED50 value of 19.2 mg/kg. It also inhibits production of reactive oxygen species (ROS) in a primary cortical neuron (PCN) cellular model of subarachnoid hemorrhage (SAH) and reduces cerebral edema in a mouse model of SAH.3 Methazolamide (T0106) is larvicidal, with a 50% larvicidal concentration (LC50) value of 724 ppm, but has no activity when administered in the diet to adult A. aegypti. Formulations containing methazolamide have been used in the treatment of glaucoma.
Targets(IC50)	Carbonic Anhydrase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1269 mL	20.6347 mL	41.2694 mL
5 mM	0.8254 mL	4.1269 mL	8.2539 mL
10 mM	0.4127 mL	2.0635 mL	4.1269 mL
50 mM	0.0825 mL	0.4127 mL	0.8254 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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