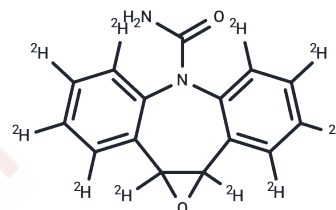


Carbamazepine-10,11-epoxide-D10 (rings-D10)

Chemical Properties

CAS No. :	1219804-16-6
Formula:	C ₁₅ H ₂ D ₁₀ N ₂ O ₂
Molecular Weight:	262.33
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	Carbamazepine-10,11-epoxide-D10 (rings-D10) is a deuterated compound of Carbamazepine-10,11-epoxide. Carbamazepine-10,11-epoxide (T37149) has a CAS number of 36507-30-9. Carbamazepine 10,11-epoxide is an active metabolite of the anticonvulsant carbamazepine[1][2]. It is formed from carbamazepine by the cytochrome P450 (CYP) isoforms CYP3A4 and CYP2C8 in microsomes prepared from HepG2 cells expressing CYP3A4 or CYP2C8, respectively[1]. Carbamazepine 10,11-epoxide has anticonvulsant activity against maximal electroshock-induced seizures in mice. It has been found in wastewater effluent[3].
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.812 mL	19.060 mL	38.1199 mL
5 mM	0.7624 mL	3.812 mL	7.624 mL
10 mM	0.3812 mL	1.906 mL	3.812 mL
50 mM	0.0762 mL	0.3812 mL	0.7624 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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