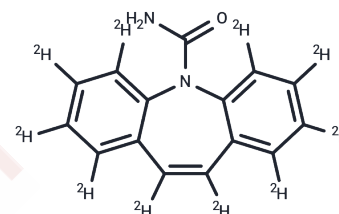


## Carbamazepine-D10

### Chemical Properties

CAS No. : 132183-78-9  
 Formula: C<sub>15</sub>H<sub>2</sub>D<sub>10</sub>N<sub>2</sub>O  
 Molecular Weight: 246.33  
 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-D10 is a deuterated compound of Carbamazepine. Carbamazepine (T0943) has a CAS number of 298-46-4. Carbamazepine (T0943) is a tricyclic compound chemically related to tricyclic antidepressants (TCA) with anticonvulsant and analgesic properties. Carbamazepine (T0943) exerts its anticonvulsant activity by reducing polysynaptic responses and blocking post-tetanic potentiation. Its analgesic activity is not understood; however, carbamazepine is commonly used to treat pain associated with trigeminal neuralgia.
Targets(IC50)	Mitophagy, Autophagy, Sodium Channel

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0596 mL	20.298 mL	40.5959 mL
5 mM	0.8119 mL	4.0596 mL	8.1192 mL
10 mM	0.406 mL	2.0298 mL	4.0596 mL
50 mM	0.0812 mL	0.406 mL	0.8119 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

Willow M, et al. Mol Pharmacol, 1982, 22(3), 627-635.

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