

## Zonisamide-15N,d4

## Chemical Properties

CAS No. :	2308764-57-8
Formula:	C <sub>8</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Weight:	217.24
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	Zonisamide-15N,d4 is a nitrogen-15 and deuterium-labeled variant of Zonisamide. Zonisamide (AD 810) acts as an orally active carbonic anhydrase inhibitor with Ki values of 35.2 nM and 20.6 nM for human mitochondrial isoenzymes hCA II and hCA V, respectively. It offers neuroprotection by inhibiting apoptosis and upregulating MnSOD levels. Additionally, Zonisamide enhances Hrd1 expression, thus improving cardiac function in AAC rats. It is applicable for research in epilepsy, Parkinson's disease, and cardiac hypertrophy.
Targets(IC50)	Apoptosis, Carbonic Anhydrase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6032 mL	23.016 mL	46.032 mL
5 mM	0.9206 mL	4.6032 mL	9.2064 mL
10 mM	0.4603 mL	2.3016 mL	4.6032 mL
50 mM	0.0921 mL	0.4603 mL	0.9206 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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