

# Zonisamide

Catalog No: tcsc1888



## Available Sizes

**Size:** 200mg

**Size:** 500mg



## Specifications

**CAS No:**

68291-97-4

**Formula:**

$C_8H_8N_2O_3S$

**Pathway:**

Membrane Transporter/Ion Channel;Membrane Transporter/Ion Channel

**Target:**

Calcium Channel;Sodium Channel

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

AD 810;CI 912

**Observed Molecular Weight:**

212.23

## Product Description

Zonisamide is a 1,2 benzisoxazole derivative and the first agent of this chemical class to be developed as an antiepileptic drug.

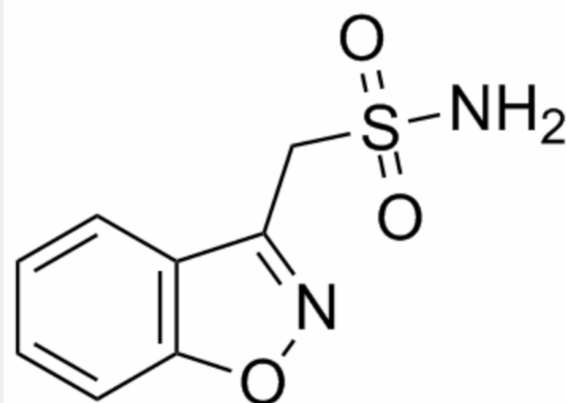
Target: Calcium channel inhibitor; Sodium channel inhibitor

Zonisamide is a sulfonamide anticonvulsant approved for use as an adjunctive therapy in adults with partial-onset seizures for adults; infantile spasm, mixed seizure types of Lennox-Gastaut syndrome, myoclonic, and generalized tonic clonic seizure. Zonisamide is a 1,2 benzisoxazole derivative and the first agent of this chemical class to be developed as an antiepileptic drug. It has shown activity in various animal models of epilepsy, and although a detailed mode of action awaits clarification it appears to block the propagation/spread of seizure discharges and to suppress the epileptogenic focus [1].

Zonisamide 500 mg/day was significantly superior to placebo in reducing the frequency of complex partial seizures (-51% versus -16%), all partial seizures and all seizures, with dose-dependent benefit provided over a 100-500 mg/day dose range. Supporting trials have confirmed significant increases in reduction in median seizure frequency (up to 41%) and responder rates (35-42%) compared with placebo following zonisamide 400-600 mg/day, enabling 20-27% of patients to attain  $\geq 75\%$  reduction in seizure frequency [2].

Clinical indications: Epilepsy; Lewy body dementia; Parkinsons disease

Toxicity: Anorexia; Somnolence; Dizziness; Irritability; Confusional state; Depression; Diplopia; Memory impairment



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!