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DATASHEET

Zonisamide

Product overview

Name	Zonisamide
Cat No	HB0675
Alternative names	AD 810, CI 912
Biological action	Blocker
Purity	>99%
Description	Non-selective Na^+ / Ca^{2+} channel blocker

Images

Biological Data

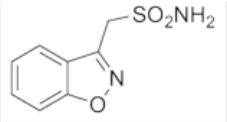
Biological description	Non-selective voltage-dependent Na^+ and T-type Ca^{2+} channel blocker. Enhances BK(Ca) channels by increasing the time they are open. Scavenges free radicals and influences monoamine, glutamate and GABA neurotransmission. Acts as an anti-epileptic and shows neuroprotective and some anti-Parkinsonian actions.

Solubility & Handling

Solubility overview	Soluble in water (10mM) or DMSO (100mM)
Storage instructions	+4°C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1,2-Benzisoxazole-3-methanesulfonamide
Molecular Weight	212.22
Chemical structure	



Molecular Formula	$C_8H_8N_2O_3S$
CAS Number	68291-97-4
PubChem identifier	5734
SMILES	NS(=O)(=O)CC1=NOC2=CC=CC=C12
InChiKey	UBQNRHZMVUUOMG-UHFFFAOYSA-N

References

Zonisamide: a new antiepileptic drug.

Sobieszek G *et al* (2003) Pol J Pharmacol 55(5)
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Activation by zonisamide, a newer antiepileptic drug, of large-conductance calcium-activated potassium channel in differentiated hippocampal neuron-derived H19-7 cells.

Huang CW *et al* (2007) J Pharmacol Exp Ther 321(1)
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Zonisamide attenuates α-synuclein neurotoxicity by an aggregation-independent mechanism in a rat model of familial Parkinson's disease.

Arawaka S *et al* (2014) PLoS One 9(2)
PubMedID 24586512