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DATASHEET

IDRA 21

Product overview

Name	IDRA 21
Cat No	HB0334
Biological action	PAM
Purity	>98%
Description	AMPA receptor positive allosteric modulator

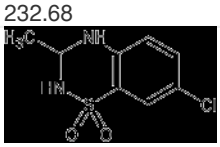
Biological Data

Biological description	AMPA receptor positive allosteric modulator. Enhances long term potentiation and inhibits AMPA receptor desensitization. Increases excitatory synaptic strength. Displays positive effects on cognition in several animal models. Blood brain barrier permeable.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM)
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	7-Chloro-3-methyl-3,4-dihydro-2*H*-1,2,4-benzothiadiazine *S*,*S*-dioxide
Molecular Weight	232.68
Chemical structure	
Molecular Formula	$C_8H_9ClN_2O_2S$
CAS Number	22503-72-6
PubChem identifier	3688
SMILES	CC1NC2=C(C=C(Cl)C=C2)S(=O)(=O)N1
InChiKey	VZRNTCHTJRLTMU-UHFFFAOYSA-N
MDL number	MFCD00270874

References

The effects of huperzine A and IDRA 21 on visual recognition memory in young macaques.

Malkova L *et al* (2011) Neuropharmacology 60(7-8)
PubMedID 21185313

7-Chloro-3-methyl-3,4-dihydro-2H-1,2,4-benzothiadiazine S,S-dioxide: a partial modulator of AMPA receptor desensitization devoid of neurotoxicity.

Impagnatiello F *et al* (1997) Proc Natl Acad Sci U S A 94(13)

PubMedID 9192690

7-Chloro-3-methyl-3-4-dihydro-2H-1,2,4 benzothiadiazine S,S-dioxide (IDRA 21): a benzothiadiazine derivative that enhances cognition by attenuating DL-alpha-amino-2,3-dihydro-5-methyl-3-oxo-4-isoxazolepropanoic acid (AMPA) receptor desensitization.

Zivkovic I *et al* (1995) J Pharmacol Exp Ther 272(1)
PubMedID 7815345