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DATASHEET

iso-PPADS tetrasodium salt

Product overview

Name	iso-PPADS tetrasodium salt
Cat No	HB1951
Biological action	Antagonist
Description	Non-selective purinergic P2X receptor antagonist

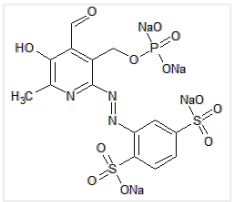
Biological Data

Biological description	iso-PPADS is a non-selective purinergic P2X receptor antagonist (pK_i = 6.5). It potently inhibits $P2X_1$ and $P2X_3$ receptors (IC_{50} values are 43 and 84 nM respectively). iso-PPADs is more potent than PPADs at $P2X_1$, $P2X_2$, $P2X_3$ and $P2Y_1$ receptors. iso-PPADS exhibits similarly activity to PPADS.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in water (100 mM)
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	Pyridoxalphosphate-6-azophenyl-2',5'-disulfonic acid tetrasodium salt
Molecular Weight	599.3
Chemical structure	
Molecular Formula	$C_{14}H_{10}N_3Na_4O_{12}PS_2$
CAS Number	207572-67-6
PubChem identifier	57369506
SMILES	CC1=NC(=NNC2=C(C=CC(=C2)S(=O)(=O)[O-])S(=O)(=O)[O-])C(=C(C1=O)C=O)COP(=O)([O-])[O-].[Na+].[Na+].[Na+].[Na+]
Source	Synthetic
InChi	InChI=1S/C14H14N3O12PS2.4Na/c1-7-13(19)9(5-18)10(6-29-30(20,21)22)14(15-7)17-16-11-4-8(31(23,24)25)2-3-12(11)32(26,27)28;;;;/h2-5,16H,6H2,1H3,(H2,20,21,22)(H,23,24,25)(H,26,27,28);;;;/q;4*+1/p-4
InChiKey	MNDLDXSGNAXMPP-UHFFFAOYSA-J
Appearance	Orange solid

References

Actions of a Series of PPADS Analogs at P2X1 and P2X3 Receptors.

Brown et al (2001) Drug Dev Res. 53(4)
PubMedID 27134334

Differentiation by pyridoxal 5-phosphate, PPADS and IsoPPADS between responses mediated by UTP and those evoked by alpha, beta-methylene-ATP on rat sympathetic ganglia.

Connolly GP (1995) Br J Pharmacol 114(3)
PubMedID 7735699

Estimates of antagonist affinities at P2X purinoceptors in rat vas deferens.

Khakh et al (1994) Eur J Pharmacol 263(3)
PubMedID 7843268