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DATASHEET

PPADS tetrasodium salt

Product overview

Name	PPADS tetrasodium salt
Cat No	HB1950
Biological action	Antagonist
Description	Non-selective purinergic P2 receptor antagonist

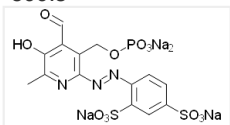
Biological Data

Biological description	PPADS tetrasodium salt is a non-selective purinergic P ₂ receptor antagonist (IC ₅₀ values are 1-4 μM at recombinant P2X ₁ , P2X ₂ , P2X ₃ , and P2X ₅ , P2X ₇ and 28 μM at P2X ₄ receptors). PPADS also blocks P2Y ₁ -like and P2Y ₁ receptors coupled to PLC (pA ₂ = 6), some P2Y ₂ -like and P2Y ₄ receptors (IC ₅₀ values are 0.9 and 15 μM respectively). PPADS shows a variety of biological actions. Active <i>in vivo</i> .
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Solubility & Handling

Storage instructions	-20 °C (desiccate)
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	Pyridoxal phosphate-6-azophenyl-2',4'- disulfonic acid tetrasodium salt
Molecular Weight	599.3
Chemical structure	
Molecular Formula	C ₁₄ H ₁₀ N ₃ Na ₄ O ₁₂ P ₂ S ₂
CAS Number	192575-19-2
PubChem identifier	50937405
SMILES	CC1=NC(=N)N2=C(C=C(C=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)17-16-11-3-2-8(31(23,24)25)4-12(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	ZNPHTQDEBMCNDG-UHFFFAOYSA-J
MDL number	MFCD11046026
Appearance	Orange solid

References

PPADS, a novel functionally selective antagonist of P2 purinoceptor-mediated responses.

Lambrecht et al (1992) Eur J Pharmacol. 217(2-3)

PubMedID [1330591](#)

Selective antagonism by PPADS at P2X-purinoceptors in rabbit isolated blood vessels.

Ziganshin et al (1994) Br J Pharmacol. 111(3)

PubMedID [8019770](#)

Investigation of the actions of PPADS, a novel P2x-purinoceptor antagonist, in the guinea-pig isolated vas deferens.

McLaren et al (1994) Br J Pharmacol. 111(3)

PubMedID [8019769](#)
