

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



# DATASHEET

## iso-PPADS tetrasodium salt

### Product overview

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

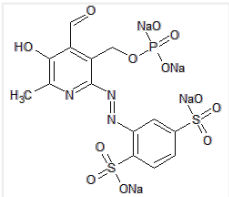
### Biological Data

<b>Biological description</b>	iso-PPADS is a non-selective purinergic P2X receptor antagonist ( $pK_i = 6.5$ ).  It potently inhibits P2X <sub>1</sub> and P2X <sub>3</sub> receptors (IC <sub>50</sub> values are 43 and 84 nM respectively). iso-PPADS is more potent than PPADS at P2X <sub>1</sub> , P2X <sub>2</sub> , P2X <sub>3</sub> and P2Y <sub>1</sub> receptors.  iso-PPADS exhibits similarly activity to <b>PPADS</b> .
-------------------------------	---

### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in water (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	Pyridoxal phosphate-6-azophenyl-2',5'-disulfonic acid tetrasodium salt
<b>Molecular Weight</b>	599.3
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>10</sub> N <sub>3</sub> Na <sub>4</sub> O <sub>12</sub> PS <sub>2</sub>
<b>CAS Number</b>	207572-67-6
<b>PubChem identifier</b>	57369506
<b>SMILES</b>	CC1=NC(=N)N(C=C(C(=O)S(=O)(=O)[O-])S(=O)(=O)[O-])C(=C(C(=O)C=O)COP(=O)([O-])[O-])[Na+].[Na+].[Na+].[Na+]
<b>Source</b>	Synthetic
<b>InChi</b>	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
<b>InChiKey</b>	MNDLDXSGNAXMPP-UHFFFAOYSA-J
<b>Appearance</b>	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](#)

---