

**Product Name:** *iso*-PPADS tetrasodium salt

**Catalog No.:** 0683

**Batch No.:** 2

CAS Number: 207572-67-6

IUPAC Name: Pyridoxal phosphate-6-azophenyl-2',5'-disulfonic acid tetrasodium salt

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>14</sub>H<sub>10</sub>N<sub>3</sub>Na<sub>4</sub>O<sub>12</sub>PS<sub>2</sub>·4H<sub>2</sub>O

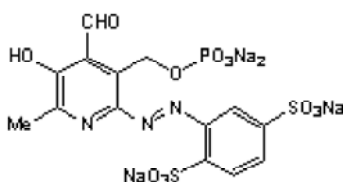
**Batch Molecular Weight:** 671.36

**Physical Appearance:** Orange solid

**Solubility:** water to 100 mM

**Storage:** Desiccate at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	25.05	2.7	6.26
Found	24.63	2.19	6.01

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IUPAC Name: Pyridoxal phosphate-6-azophenyl-2',5'-disulfonic acid tetrasodium salt

**Description:**

P2X-purinoceptor antagonist ( $pK_i = 6.5$ ) with similar activity to PPADS. 2'4'-isomer also available.

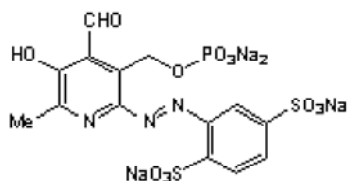
**Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{14}H_{10}N_3Na_4O_{12}PS_2 \cdot 4H_2O$

Batch Molecular Weight: 671.36

Physical Appearance: Orange solid

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

water to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Connolly** (1995) 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. *Br.J.Pharmacol.* **114** 727. PMID: 7735699.

**Khakh et al** (1994) Estimates of antagonist affinities at P2X purinoceptors in rat vas deferens. *Eur.J.Pharmacol.* **263** 301. PMID: 7843268.

**Treize et al** (1994) The use of antagonists to characterize the receptors mediating depolarization of the rat isolated vagus nerve by  $\alpha,\beta$ -methylene adenosine 5'-triphosphate. *Br.J.Pharmacol.* **112** 282. PMID: 8032652.

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