

Certificate of Analysis

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Product Name: PPNDS

Catalog No.: 1309

Batch No.: 1

CAS Number: 1021868-77-8

IUPAC Name: Pyridoxal-5'-phosphate-6-(2'-naphthylazo-6'-nitro-4',8'-disulfonate) tetrasodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{11}N_4Na_4O_{14}PS_2$

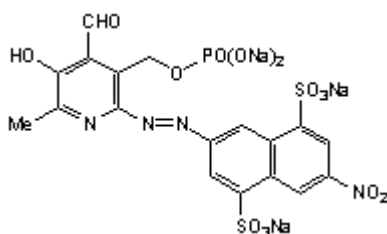
Batch Molecular Weight: 694.36

Physical Appearance: Dark red solid

Solubility: water to 100 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.59$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Greater than 300°C

1H NMR: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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Description:

Potent and selective P2X₁ receptor antagonist ($pK_B = 7.43$ in rat vas deferens). Up to 52-fold selective over P2Y₁ receptors, and selective over ecto-nucleotidase, α_{1A} -adrenoceptors, A₁, A_{2B}, H₁ and M₃ receptors.

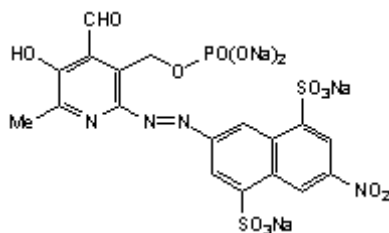
Physical and Chemical Properties:

Batch Molecular Formula: C₁₈H₁₁N₄Na₄O₁₄PS₂

Batch Molecular Weight: 694.36

Physical Appearance: Dark red 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:

Lambrecht *et al* (2000) The novel pyridoxal-5'-phosphate derivative PPNSD potently antagonizes activation of P2X₁ receptors. *Eur.J.Pharmacol.* **387** R19. PMID: 10650184.

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