

Certificate of Analysis

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Product Name: MRS 2693 trisodium salt

Catalog No.: 2502

Batch No.: 5

CAS Number: 1448858-83-0

IUPAC Name: 5-Iodouridine-5'-O-diphosphate trisodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₀IN₂Na₃O₁₂P₂

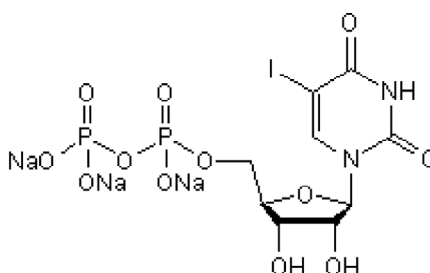
Batch Molecular Weight: 596

Physical Appearance: solution

Solubility: Soluble in water (supplied pre-dissolved at a concentration of 10mM)

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

Mass Spectrum: Consistent with structure

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

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IUPAC Name: 5-Iodouridine-5'-O-diphosphate trisodium salt

Description:

MRS 2693 trisodium salt is a selective P2Y₆ agonist (EC₅₀ = 0.015 µM at the hP2Y₆ receptor). Displays no activity at other P2Y subtypes. Exerts a cytoprotective effect in an in vivo mouse model of hindlimb skeletal muscle ischemia/reperfusion injury.

Physical and Chemical Properties:

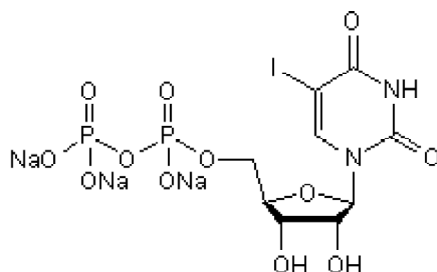
Batch Molecular Formula: C₉H₁₀IN₂Na₃O₁₂P₂

Batch Molecular Weight: 596

Physical Appearance: solution

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in water (supplied pre-dissolved at a concentration of 10mM)

This compound is supplied in aqueous solution at a concentration of 10mM.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Jacobson *et al* (2009) Development of selective agonists and antagonists of P2Y receptors. *Purinerg.Sig.* **5** 75.

Mamedova *et al* (2008) Attenuation of apoptosis *in vitro* and ischemia/reperfusion injury *in vivo* in mouse skeletal muscle by P2Y₆ receptor activation. *Pharmacol.Res.* **58** 232. PMID: 18805489.

Besada *et al* (2006) Structure-activity relationships of uridine 5'-diphosphate analogues at the human P2Y₆ receptor. *J.Med.Chem.* **49** 5532. PMID: 16942026.

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