

**Product Name:** MRS 2693 trisodium salt

**Catalog No.:** 2502

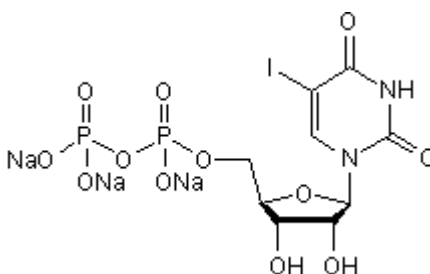
**Batch No.:** 2

CAS Number: 1448858-83-0

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:**  $C_9H_{10}IN_2Na_3O_{12}P_2$   
**Batch Molecular Weight:** 596  
**Physical Appearance:** Colourless 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 99.2% 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:**

Selective P2Y<sub>6</sub> agonist (EC<sub>50</sub> = 0.015 μM at the hP2Y<sub>6</sub> 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:**

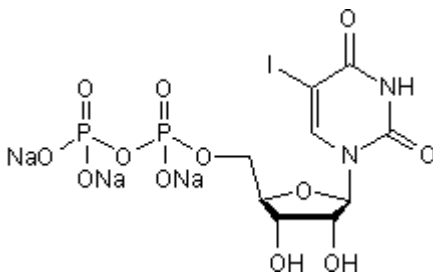
Batch Molecular Formula: C<sub>9</sub>H<sub>10</sub>IN<sub>2</sub>Na<sub>3</sub>O<sub>12</sub>P<sub>2</sub>

Batch Molecular Weight: 596

Physical Appearance: Colourless 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. 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:**

**Besada *et al*** (2006) Structure-activity relationships of uridine 5'-diphosphate analogues at the human P2Y<sub>6</sub> receptor. *J.Med.Chem.* **49** 5532. PMID: 16942026.

**Mamedova *et al*** (2008) Attenuation of apoptosis *in vitro* and ischemia/reperfusion injury *in vivo* in mouse skeletal muscle by P2Y<sub>6</sub> receptor activation. *Pharmacol.Res.* **58** 232. PMID: 18805489.

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

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