

Product Name: MRS 2690

Catalog No.: 2915

Batch No.: 5

CAS Number: 15039-58-4

IUPAC Name: Diphosphoric acid 1- α -D-glucopyranosyl ester 2-[(4'-methylthio)uridin-5''-yl] ester disodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{22}N_2Na_2O_{16}P_2S$

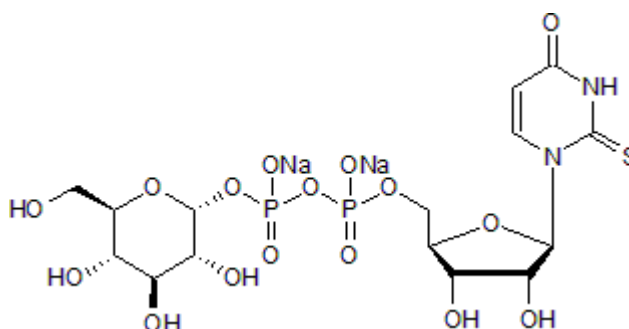
Batch Molecular Weight: 626.33

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

Mass Spectrum: Consistent with structure

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

Tocris Bioscience is an R&D Systems company
 USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®

Product Name: MRS 2690

Catalog No.: 2915

Batch No.: 5

CAS Number: 15039-58-4

IUPAC Name: Diphosphoric acid 1- α -D-glucopyranosyl ester 2-[(4'-methylthio)uridin-5''-yl] ester disodium salt

Description:

Potent P2Y₁₄ receptor agonist (EC₅₀ = 49 nM) that displays 7-fold higher potency than UDP-glucose.

Physical and Chemical Properties:

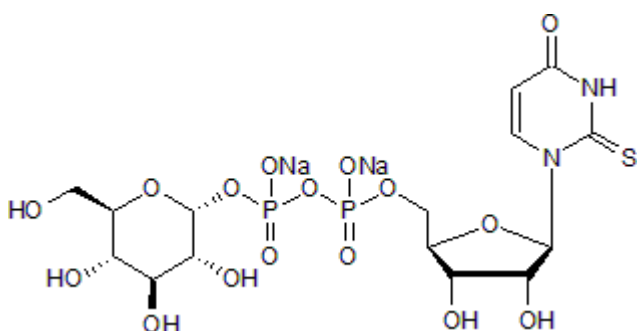
Batch Molecular Formula: C₁₅H₂₂N₂Na₂O₁₆P₂S

Batch Molecular Weight: 626.33

Physical Appearance: White solid

Minimum Purity: >98%

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:

Ko *et al* (2007) Structure-activity relationship of uridine 5'-diphosphoglucose analogues as agonists of the human P2Y₁₄ receptor. *J.Med.Chem.* **50** 2030. PMID: 17407275.

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

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®