

Uridine-5'-O-(3-thiotriphosphate) sodium

Chemical Properties

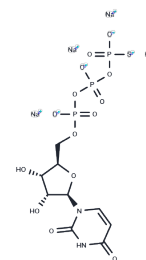
CAS No. :

Formula: C₉H₁₁N₂O₁₄P₃S₄Na

Molecular Weight: 588.14

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Uridine-5'-O-(3-thiotriphosphate) (UTP-γ-S) is a hydrolysis-resistant UTP derivative and an agonist of the purinergic P2Y2 receptor. It effectively induces inositol phosphate formation in 1321N1 astrocytoma cells harboring the human P2Y2 receptor (EC ₅₀ = 240 nM) and stimulates chloride secretion in a dose-dependent manner in primary nasal epithelial cells from cystic fibrosis patients. Moreover, UTP-γ-S prompts vasoconstriction in isolated human coronary arteries (EC ₅₀ = 25.1 μM).
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7003 mL	8.5014 mL	17.0028 mL
5 mM	0.3401 mL	1.7003 mL	3.4006 mL
10 mM	0.170 mL	0.8501 mL	1.7003 mL
50 mM	0.034 mL	0.170 mL	0.3401 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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