

## PSB-1114 tetrasodium

## Chemical Properties

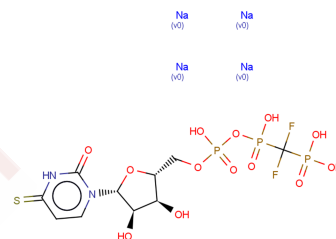
CAS No. : 1657025-60-9

Formula: C<sub>10</sub>H<sub>15</sub>F<sub>2</sub>N<sub>2</sub>Na<sub>4</sub>O<sub>13</sub>P<sub>3</sub>S

Molecular Weight: 626.17

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	PSB-1114 tetrasodium shows >50-fold selectivity versus the P2Y <sub>4</sub> (EC <sub>50</sub> : 9.3 μM) and P2Y <sub>6</sub> (EC <sub>50</sub> : 7.0 μM) receptors. PSB-1114 tetrasodium is an effective, enzymatically stable, and subtype-selective P2Y <sub>2</sub> receptor agonist (EC <sub>50</sub> : 134 nM) .
Targets(IC <sub>50</sub> )	P2Y Receptor
In vitro	PSB-1114 may be a useful pharmacological tool for studying P2Y <sub>2</sub> receptors. PSB-1114 (4-Thio-β,γ-difluoromethylene-UTP) shows >60-fold selectivity versus P2Y <sub>4</sub> and P2Y <sub>6</sub> receptors. Because of its high potency, selectivity, and expected metabolic stability toward ectonucleotidases, in particular NTPDases [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.597 mL	7.9851 mL	15.9701 mL
5 mM	0.3194 mL	1.597 mL	3.194 mL
10 mM	0.1597 mL	0.7985 mL	1.597 mL
50 mM	0.0319 mL	0.1597 mL	0.3194 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.

## Reference

El-Tayeb A, et al. Structural modifications of UMP, UDP, and UTP leading to subtype-selective agonists for P2Y<sub>2</sub>, P2Y<sub>4</sub>, and P2Y<sub>6</sub> receptors. J Med Chem. 2011 Apr 28;54(8):2878-90.

Rafehi M, et al. Tools and drugs for uracil nucleotide-activated P2Y receptors. Pharmacol Ther. 2018 Oct;190:24-80.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481