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**Product Data Sheet**

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Product Name: PSB 1114

Cat. No.: GC15635

**Chemical Properties**

Cas. No. 1657025-60-9

SMILES FC(P([O-])([O-])=O)(P([O-])(OP([O-])(OC[C@](O1)([H])[C@](O)([H])[C@](O)([H])C1([H])N2C=CC(S)=NC2=O)=O)=O)F.[Na+].[Na+].[Na+].[Na+]Formula  $C_{10}H_{11}F_2N_2Na_4O_{13}P_3S$  M.Wt 622.14

Solubility &lt;10mM in Water Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

PSB 1114 is a potent and selective agonist of P2Y2 receptor with EC50 value of 0.134  $\mu$ M [1].

P2Y2 receptor is a purinergic G protein-coupled receptor and is activated by ATP and UTP. P2Y2 receptor is a potential target for treatment of cystic fibrosis.

PSB 1114 is a potent and selective P2Y2 receptor agonist. PSB 1114 activated P2Y2, P2Y4 and P2Y6 with EC50 values of 0.134, 9.3 and 7.0  $\mu$ M respectively and exhibited >60-fold selectivity versus P2Y6 and P2Y4 receptors [1].

Reference:

[1]. El-Tayeb A, Qi A, Nicholas RA, et al. Structural modifications of UMP, UDP, and UTP leading to subtype-selective agonists for P2Y2, P2Y4, and P2Y6 receptors. J Med Chem, 2011, 54(8): 2878-2890.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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