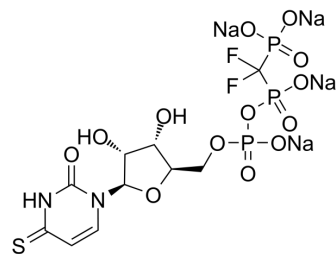


PSB-1114 tetrasodium

Cat. No.:	HY-110092
CAS No.:	1657025-60-9
Molecular Formula:	C ₁₀ H ₁₁ F ₂ N ₂ Na ₄ O ₁₃ P ₃ S
Molecular Weight:	622.14
Target:	P2Y Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PSB-1114 tetrasodium is a potent, enzymatically stable, and subtype-selective P2Y ₂ receptor agonist with an EC ₅₀ of 134 nM. PSB-1114 tetrasodium displays >50-fold selectivity versus the P2Y ₄ (EC ₅₀ of 9.3 μM) and P2Y ₆ (EC ₅₀ of 7.0 μM) receptors ^[1] .
IC₅₀ & Target	EC ₅₀ : 134 nM (P2Y ₂ receptor), 9.3 μM (P2Y ₄ receptor); 7.0 μM (P2Y ₆ receptor) ^[1]
In Vitro	PSB-1114 (4-Thio-β,γ-difluoromethylene-UTP; compound 14g) displays >60-fold selectivity versus P2Y ₄ and P2Y ₆ receptors. Because of its high potency, selectivity, and expected metabolic stability toward ectonucleotidases, in particular NTPDases, PSB-1114 may be a useful pharmacological tool for studying P2Y ₂ receptors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. El-Tayeb A, et al. Structural modifications of UMP, UDP, and UTP leading to subtype-selective agonists for P2Y₂, P2Y₄, and P2Y₆ receptors. *J Med Chem.* 2011 Apr 28;54(8):2878-90.
- [2]. Rafehi M, et al. Tools and drugs for uracil nucleotide-activated P2Y receptors. *Pharmacol Ther.* 2018 Oct;190:24-80.

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

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