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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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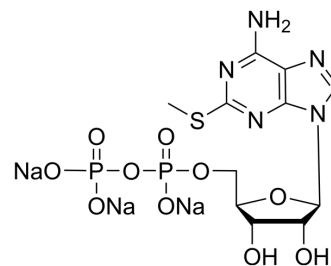
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2-MeS-ADP trisodium

Cat. No.:	HY-108648
CAS No.:	475193-31-8
Molecular Formula:	C ₁₁ H ₁₄ N ₅ Na ₃ O ₁₀ P ₂ S
Molecular Weight:	539.24
Target:	P2Y Receptor
Pathway:	GPCR/G Protein
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	2-Methylthioadenosine diphosphate trisodium is a potent purinergic P2Y receptors agonist, with EC ₅₀ s of 19, 6.2, and 5 nM for human P2Y13, mouse P2Y13 and human P2Y12, respectively. 2-Methylthioadenosine diphosphate trisodium has pEC ₅₀ s of 8.29 and 5.75 for human P2Y1 and rat P2Y6, respectively. 2-Methylthioadenosine diphosphate trisodium induces platelet aggregation and shape change, and inhibits cyclic AMP accumulation in platelets exposed to prostaglandin E1 ^{[1][2][3]} .	
IC₅₀ & Target	P2Y13 Receptor	P2Y12 Receptor
In Vitro	2-Methylthioadenosine diphosphate trisodium (2-Methylthio-ADP trisodium) is a powerful aggregating agent for human platelets. 2-Methylthioadenosine diphosphate trisodium is also a powerful inhibitor of the accumulation of cyclic AMP in intact platelets exposed to PGE1 and a phosphodiesterase inhibitor ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

- [1]. Zhang FL, et al. P2Y(13): identification and characterization of a novel Gα_i-coupled ADP receptor from human and mouse. *J Pharmacol Exp Ther.* 2002;301(2):705-713.
- [2]. Sak K, et al. A retrospective of recombinant P2Y receptor subtypes and their pharmacology. *Arch Biochem Biophys.* 2002;397(1):131-136.
- [3]. Macfarlane DE, et al. 2-Methylthioadenosine[β-32P]diphosphate. An agonist and radioligand for the receptor that inhibits the accumulation of cyclic AMP in intact blood platelets. *J Clin Invest.* 1983;71(3):420-428.

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

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