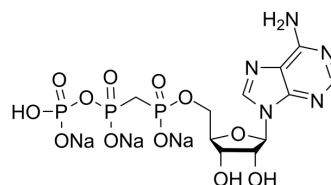


α,β -Methylene-ATP trisodium

Cat. No.:	HY-108652
CAS No.:	1343364-54-4
Molecular Formula:	C ₁₁ H ₁₅ N ₅ Na ₃ O ₁₂ P ₃
Molecular Weight:	571.15
Target:	P2X Receptor
Pathway:	Membrane Transporter/Ion Channel
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (218.86 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7509 mL	8.7543 mL	17.5085 mL
	5 mM	0.3502 mL	1.7509 mL	3.5017 mL
	10 mM	0.1751 mL	0.8754 mL	1.7509 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

α,β -Methylene-ATP trisodium, a phosphonic analog of ATP, is a P2X3 and P2X7 receptor ligand^[1]. α,β -Methylene-ATP trisodium is a highly selective agonist for P2X1 and P2X3, with practically no activity at P2X2,4-7^[2].

IC₅₀ & Target

p2x1 Receptor	P2X3 Receptor	P2X7 Receptor
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REFERENCES

[1]. Arribas-Blázquez M, et al. Overexpression of P2X3 and P2X7 Receptors and TRPV1 Channels in Adrenomedullary Chromaffin Cells in a Rat Model of Neuropathic Pain. *Int J Mol Sci.* 2019 Jan 3;20(1).

[2]. Claudio Coddou, et al. Activation and regulation of purinergic P2X receptor channels. *Pharmacol Rev.* 2011 Sep;63(3):641-83

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

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