## Oxidized ATP trisodium salt

Cat. No.:	HY-137888A	
CAS No.:	71997-40-5	
Molecular Formula:	$C_{10}H_{11}N_5Na_3O_{13}P_3$	
Molecular Weight:	571.11	
Target:	P2X Receptor; NOD-like Receptor (NLR)	N N
Pathway:	Membrane Transporter/Ion Channel; Immunology/Inflammation	NH <sub>2</sub>
Storage:	-20°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7510 mL	8.7549 mL	17.5098 mL
	5 mM	0.3502 mL	1.7510 mL	3.5020 mL
	10 mM	0.1751 mL	0.8755 mL	1.7510 mL

BIOLOGICAL ACTIV	-γ	
Description	Oxidized ATP (oATP) trisodium salt is a broad-spectrum P2 receptor inhibitor. Oxidized ATP trisodium salt irreversibly antagonizes P2X7R activation. Oxidized ATP trisodium salt inhibits c-reactive protein (CRP)-induced NLRP3 inflammasome activation. Oxidized ATP trisodium salt can be used for research of atherosclerosis <sup>[1][2]</sup> .	
IC <sub>50</sub> & Target	NLRP3 inflammasome P2X7 Receptor	
In Vitro	Oxidized ATP trisodium salt (100 μM, 1 h) inhibits CRP (20 μg/mL, 24 h)-induced caspase-1 activation and maturation of IL-1β in HUVECs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Oxidized ATP (300 µg/mouse, i.p., twice a week) trisodium salt ameliorates the induced mouse experimental autoimmune uveitis (EAU) in B6 mice <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Induced mouse experimental autoimmune uveitis (EAU) <sup>[2]</sup>	

## Product Data Sheet



Dosage:	300 μg/mouse
Administration:	i.p.
Result:	Showed almost undetected EAU, as shown by fundoscopic and pathologic examination. Decreased serum IL-17 level.
	Mitigated the autoreactive T cell response.

## REFERENCES

[1]. Bian F, et al. CRP-Induced NLRP3 Inflammasome Activation Increases LDL Transcytosis Across Endothelial Cells. Front Pharmacol. 2019 Jan 30;10:40.

[2]. Zhao R, et al. Blockade of Extracellular ATP Effect by Oxidized ATP Effectively Mitigated Induced Mouse Experimental Autoimmune Uveitis (EAU). PLoS One. 2016 May 19;11(5):e0155953.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA