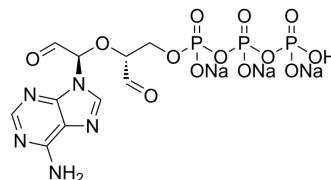


## Oxidized ATP trisodium salt

<b>Cat. No.:</b>	HY-137888A
<b>CAS No.:</b>	71997-40-5
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>11</sub> N <sub>5</sub> Na <sub>3</sub> O <sub>13</sub> P <sub>3</sub>
<b>Molecular Weight:</b>	571.11
<b>Target:</b>	P2X Receptor; NOD-like Receptor (NLR)
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Immunology/Inflammation
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

<b>Description</b>	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> .	
<b>IC<sub>50</sub> &amp; Target</b>	NLRP3 inflammasome	P2X7 Receptor
<b>In Vitro</b>	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.	
<b>In Vivo</b>	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.	
	<b>Animal Model:</b>	Induced mouse experimental autoimmune uveitis (EAU) <sup>[2]</sup>
	<b>Dosage:</b>	300 μg/mouse
	<b>Administration:</b>	i.p.
	<b>Result:</b>	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.

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

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