

Product Data Sheet

Product Name: Adenosine 5'-triphosphate, periodate oxidized sodium salt

Cat. No.: GF17016

Chemical Properties

Cas. No. 71997-40-5

Formula CH₁₄N₅O₁₃P₃

M.Wt 505.17

Solubility H₂O : 50 mg/mL (87.55 mM; Need ultrasonic and warming)

Storage -20 °C, sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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.

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^[1].

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

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Oxidized ATP (300 渭g/mouse, i.p., twice a week) trisodium salt ameliorates the induced mouse experimental autoimmune uveitis (EAU) in B6 mice^[2].

[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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