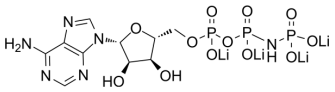
AMP-PNP tetralithium

Cat. No.:	HY-128933
CAS No.:	72957-42-7
Molecular Formula:	$C_{10}H_{13}Li_4N_6O_{12}P_3$
Molecular Weight:	529.93
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	AMP-PNP tetralithium (Adenylyl-imidodiphosphate tetralithium) is a non-hydrolysable analogue of ATP and inhibits K_{ATP} channels[1][2].
In Vitro	AMP-PNP (5 to 500 μM; Li salt) reduced the open-probability p_o of K_{ATP} channels and decreases the single-channel currents at high nucleotide concentrations by approximately 10%[2]. AMP-PNP inhibits K_{ATP} channels of ventricular myocytes and of pancreatic β-cells both in the absence and presence of Mg^{2+} ions[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. I M Rybakowska, et al. Activities of purine converting enzymes in heart, liver and kidney mice LDLR-/- and Apo E-/. Nucleosides Nucleotides Nucleic Acids. 2018;37(6):340-347.

[2]. S Hehl, et al. KATP channels of mouse skeletal muscle: mechanism of channel blockage by AMP-PNP. Eur Biophys J. 1994;23(4):231-7.

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