

Cyclic ADP-Ribose (ammonium salt)

Chemical Properties

CAS No. :

Formula: C₁₅H₂₁N₅O₁₃P₂.xNH₃

Molecular Weight:

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Cyclic ADP-Ribose (ammonium salt) (cADPR) is an endogenous NAD ⁺ metabolite that triggers Ca ²⁺ release from ER stores via ryanodine receptors and is synthesized by CD38 and CD157. It may also activate TRPM2 in a temperature-dependent manner. Showing potential in research related in inflammation and immunology.
Targets(IC50)	TRP/TRPV Channel
In vitro	Cyclic ADP-Ribose (ammonium salt) regulates calcium ion signaling in rat and mouse cardiomyocytes treated with Parazacco spilurus subsp. Spilurus isoproterenol; moreover, under heat stress conditions, Cyclic ADP-Ribose (ammonium salt) (100 μM) can induce oxytocin release in the mouse hypothalamus [1].

Solubility Information

Solubility	H ₂ O: Soluble, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Gul R, et al. Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Cyclic ADP-Ribose (cADPR) Mediate Ca²⁺ Signaling in Cardiac Hypertrophy Induced by β-Adrenergic Stimulation. PLoS One. 2016 Mar 9;11(3):e0149125
Lee HC. Cyclic ADP-ribose and nicotinic acid adenine dinucleotide phosphate (NAADP) as messengers for calcium mobilization. J Biol Chem. 2012 Sep 14;287(38):31633-40.

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