

Cyclic adenosine diphosphate ribose (cADPR) Biochemical

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CATALOG #
AAA52696

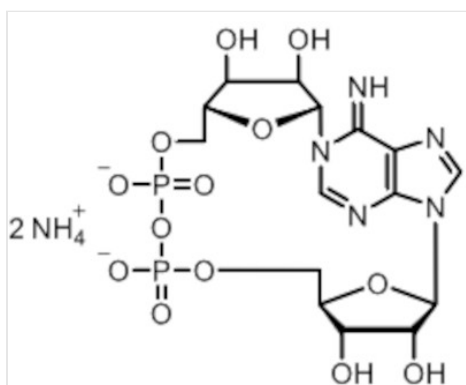
PRODUCT SYNONYMS

Cyclic adenosine diphosphate ribose (cADPR); Cyclic adenosine diphosphate ribose (cADPR) biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	Typical analysis is better than 98% (HPLC / UV / 260 nm). The product is not sterile and has not been tested for endotoxins.
CAS No.	119340-53-3
UV	?max 260 nm / ? 12400 / pH 7
Specification	Crystallized or lyophilized ammonium salt. The free acid or other salt forms are available upon request. Please keep in mind that equal concentrations of the compound may look different in volume due to sensitivity of the lyophilized form to humidity. The compound can even contract to small volume droplets. Normally the product is located in the conical bottom of the tube. Micromolar quantities are determined by UV at ?max. For bulk quantities please inquire
Solubility	cADPR has excellent solubility in water and buffers. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing. When opening the tube please make sure that no substance is lost within the cap.
Formula	$C_{15}H_{21}N_5O_{13}P_2$ for free acid
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	cADPR has limited stability at ambient temperature. Therefore, we recommend to store the compound in the freezer (-20 degree celsius necessary, -80 degree C recommended), for longer storage periods preferably in freeze-dried form.

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for Cyclic adenosine diphosphate ribose (cADPR) biochemical	Description: cADPR is an analogue of ADP ribose in which the C-1 of the free ribose is connected to the nitrogen in position 1 of the adenine nucleobase yielding a macrocyclic ring system (Kim et al. 1993) Properties: Mobilizes intracellular calcium and regulates calcium-induced calcium release (Lee et al. 1989), mediates glucose-dependent insulin release (Takasawa et al. 1993), and calcium release in plants (Wu et al. 1997).
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NCBI AND UNIPROT INFORMATION

Molecular Weight	541.3 for free acid
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/cyclic-adenosine-diphosphate-ribose-cadpr/52696>