

NAADP (sodium salt) Biochemical | NAADP biochemical

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CATALOG #
AAA227086

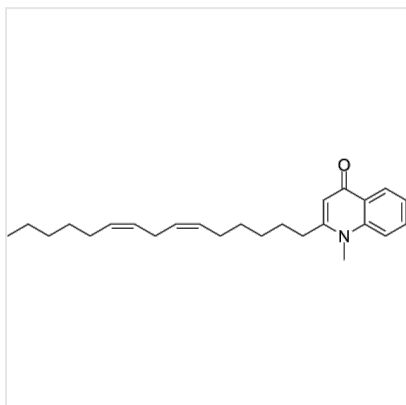
PRODUCT SYNONYMS

NAADP (sodium salt); NAADP biochemical

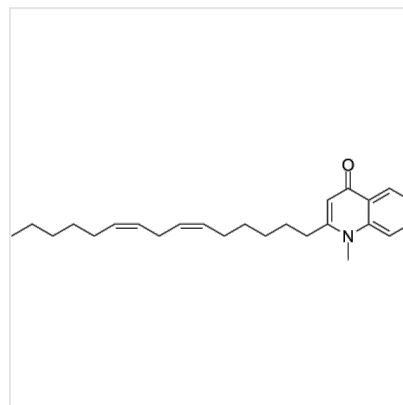
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	H ₂ O: 50 mg/mL <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
1-Methyl-2-[(6Z,9Z)-6,9-pentadecadienyl]-4(1H)-quinolone, CAS 120693-52-9



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ADDITIONAL INFORMATION

Related Product Information for NAADP biochemical	Nicotinic acid adenine dinucleotide phosphate (NAADP) is a secondary messenger that induces calcium mobilization. It induces calcium release from endosomes and lysosomes via two-pore channel 2 (TPC2) and TPC1, which then stimulates large-scale calcium release from granules and the endoplasmic reticulum mediated by type 1 ryanodine receptors (RyR2s), RyR3s, and inositol-(1,4,5)-triphosphate receptors (IP3Rs). NAADP induces calcium mobilization in sea urchin and starfish eggs post fertilization to block polyspermy and activate embryogenesis. NAADP-induced calcium mobilization induces VEGF-mediated angiogenesis in human umbilical vein endothelial cells (HUVECs). It also alkalizes lysosomal pH thereby inhibiting fusion between autophagosomes and lysosomes and arresting autophagic flux in mouse embryonic stem cells.
References	1. Hyun SL, et al. Inhibition of Angiotensin II Receptor Binding by Quinolone Alkaloids from <i>Evodia rutaecarpa</i> . <i>Phytotherapy Research</i> , VOL. 12, 212-214 (1998)

NCBI AND UNIPROT INFORMATION

Molecular Weight	365.561
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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://www.aaabiotech.com/biochemical/naadp-sodium-salt/227086>