?- ara- 2'- Deoxy- 2'- fluoro- nicotinamide adenine dinucleotide (ara-2'-F-NAD$^+$) Biochemical

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CATALOG #
AAA12385

PRODUCT SYNONYMS

?- ara- 2'- Deoxy- 2'- fluoro- nicotinamide adenine dinucleotide (ara-2'-F-NAD$^+$); ?-araF-NAD$^+$ / ?-2'-Fluoro-ara-NAD$^+$ / 2'-Fluoro-2'-deoxy-substituted nicotinamide arabinoside adenine dinucleotide; ?- ara- 2'- Deoxy- 2'- fluoro- nicotinamide adenine dinucleotide (ara-2'-F-NAD$^+$) biochemical

PRODUCT SPECIFICATIONS

Specificity	Lyophilized or crystallized sodium salt. The free acid or other salt forms are available upon request. Equal concentrations of ara-2'-F-NAD+ can appear very 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 $?_{max}$.
Purity/Purification	Typical analysis is better than 97% (HPLC / UV / 260 nm). The product is not sterile and has not been tested for endotoxins.
CAS No.	133575-27-6
Formula	$C_{21}H_{26}FN_7O_{13}P_2$
UV	$?_{max}$ 260nm/ ? 20000/pH7
Properties	ara-2'-F-NAD$^+$ is a hydrolysis-resistant slow binding inhibitor of ADP-ribosyl cyclase (i.e. CD 38).
Solubility	ara-2'-F-NAD$^+$ has excellent solubility in water and aqueous buffers (> 30 mM, limits have not been determined). 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.
Toxicity and Safety	Please keep in mind that the in vivo properties of this compound are not sufficiently characterized up to now. Avoid skin contact or ingestion and allow only trained personnel to handle the product. Our products are designed, developed and sold for research purposes only. They are intended for in vitro and nonhuman in vivo laboratory applications. Any other use requires approval of health authorities. Not for drug, household or related uses.
Preparation and Storage	ara-2'-F-NAD$^+$ aliquots (freeze-dried or in solution) are sufficiently stable to be stored up to 7 days at room temperature. Nevertheless, we recommend that the compound should be stored in the freezer, for longer storage periods preferably in freeze-dried form (-20 degrees Celsius necessary, -80 degrees Celsius recommended).

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for ?- ara- 2'- Deoxy- 2'- fluoro- nicotinamide adenine dinucleotide (ara-2'-F-NAD+) biochemical	ara-2'-F-NAD$^+$ is an analogue of ?-NAD$^+$ in which the nicotinamide-connected ribose is replaced by 2'-fluoro arabinose

NCBI AND UNIPROT INFORMATION

Molecular Weight	665.4 (free acid)

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/beta-ara-2-deoxy-2-fluoro-nicotinamide-adenine-dinucleotide-ara-2-f-nadsup-sup/12385