

1, N6- Ethenoadenosine- 5'- O- diphosphoribose (epsilon-ADPR / epsilon-ADP-ribose)

Biochemical

1, N6- Ethenoadenosine- 5'- O- diphosphoribose (epsilon-ADPR / epsilon-ADP-ribose)

CATALOG #
AAA52693

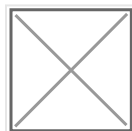
PRODUCT SYNONYMS

1, N6- Ethenoadenosine- 5'- O- diphosphoribose (epsilon-ADPR / epsilon-ADP-ribose); N6- Ethenoadenosine- 5'- O- diphosphoribose (epsilon-ADPR / epsilon-ADP-ribose) biochemical

PRODUCT SPECIFICATIONS

Specificity	Lyophilized or crystallized sodium salt. Other salt forms are available upon request. Equal concentrations of γ -ADPR 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 $\lambda_{\max}$.
Purity/Purification	Typical analysis is better than 95% (HPLC / UV / 265 nm). The product is not sterile and has not been tested for endotoxins.
CAS No.	69699-76-9
Properties	γ -ADPR is a fluorescent analogue of ADP-ribose (λ_{exc} 300 nm and λ_{em} 410 nm) and can be used in fluorometric assays.
Formula	$\text{C}_{17}\text{H}_{23}\text{N}_5\text{O}_{14}\text{P}_2$
Solubility	γ -ADPR is soluble in water (≥ 20 mM). 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.
UV	$\lambda_{\max}$ 265 nm / λ 6000 / pH 7
Preparation and Storage	γ -ADPR is chemically rather stable and does not need special care during handling or shipment. Nevertheless, we recommend that the compound should be protected from light and stored in the freezer, for longer storage periods preferably in freeze-dried form.

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for 1, N6- Ethenoadenosine- 5'- O- diphosphoribose (epsilon-ADPR / epsilon-ADP-ribose) biochemical

Description: γ -ADPR is an analogue of ADP-ribose in which both the N1 and the N⁶ nitrogen atoms in the adenine nucleobase are connected by an etheno bridge forming a tricyclic ring system.

NCBI AND UNIPROT INFORMATION

Molecular Weight 583.3 (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/1-n6-ethenoadenosine-5-o-diphosphoribose-epsilon-adpr-epsilon-adp-ribose/52693>