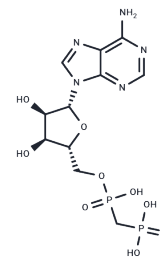


## MethADP

## Chemical Properties

CAS No. :	3768-14-7
Formula:	C <sub>11</sub> H <sub>17</sub> N <sub>5</sub> O <sub>9</sub> P <sub>2</sub>
Molecular Weight:	425.23
Storage:	Pure form: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	MethADP (Adenosine 5'-( $\alpha,\beta$ -methylene)diphosphate) is a specific CD73 inhibitor that inhibits the enzyme ecto-5'-nucleotidase (ecto), which has been used in the study of neurological and cardiovascular diseases.
Targets(IC50)	CD73
In vitro	MethADP (AMP-CP: 20 $\mu$ M) significantly inhibits adenosine formation ( $0.96\pm 0.96$ $\mu$ M) compared to untreated controls ( $9.6\pm 1.5$ $\mu$ M) in A498 and RT4 cells, with complete inhibition observed at 100 $\mu$ M.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3517 mL	11.7583 mL	23.5167 mL
5 mM	0.4703 mL	2.3517 mL	4.7033 mL
10 mM	0.2352 mL	1.1758 mL	2.3517 mL
50 mM	0.047 mL	0.2352 mL	0.4703 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Mohlin C, et al. Studies of the extracellular ATP-adenosine pathway in human urinary tract epithelial cells. *Pharmacology*. 2009;84(4):196-202.

Shi E, Wu Z, Karaoglan BS, Schwenk-Zieger S, Kranz G, Abdul Razak N, Reichel CA, Canis M, Baumeister P, Zeidler R, Gires O. 5'-Ectonucleotidase CD73/NT5E supports EGFR-mediated invasion of HPV-negative head and neck carcinoma cells. *J Biomed Sci*. 2023 Aug 24;30(1):72.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481