

Adenosine 5'-methylenediphosphate (hydrate) Biochemical

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CATALOG #
AAA227044

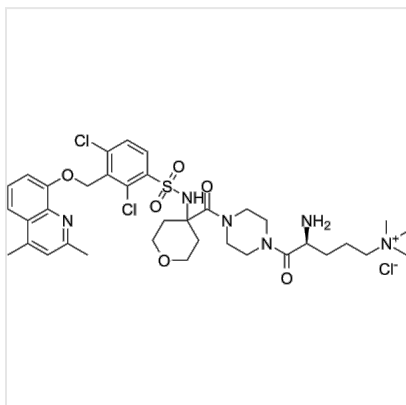
PRODUCT SYNONYMS

Adenosine 5'-methylenediphosphate (hydrate); MEN16132 free base; Adenosine 5'-methylenediphosphate (hydrate) biochemical

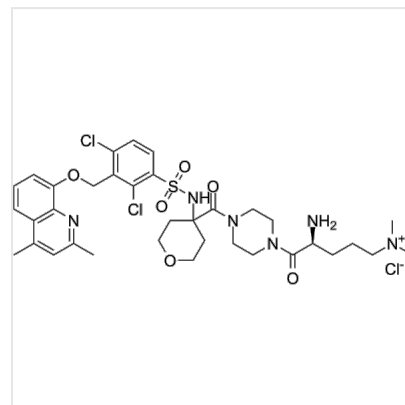
PRODUCT SPECIFICATIONS

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
Fasitibant chloride, CAS 1157852-02-2



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ADDITIONAL INFORMATION

Related Product Information for Adenosine 5'-methylenediphosphate (hydrate) biochemical	Adenosine 5'-methylenediphosphate is an inhibitor of ecto-5'-nucleotidase, also known as CD73, with a K _i value of 37 nM. It inhibits cAMP accumulation induced by adenosine 5'-monophosphate, adenosine 5'-diphosphate, or adenosine 5'-triphosphate but not adenosine in VA-13 human fibroblasts when used at a concentration of 100 μM. Adenosine 5'-methylenediphosphate reduces proliferation of U138MG glioma cells, as well as inhibits the invasion and migration of MHCC97H hepatocellular carcinoma (HCC) cells in a migration assay. ^{2,3} It increases tumor infiltration of CD3+CD8+T cells and reduces tumor growth in a K1735 murine melanoma model when administered at a dose of 400 μg/mouse. ⁴
References	- Claudio Valenti, et al. Fasitibant Chloride, a Kinin B₂ Receptor Antagonist, and Dexamethasone Interact to Inhibit Carrageenan-Induced Inflammatory Arthritis in Rats. <i>Br J Pharmacol.</i> 2012 Jun;166(4):1403-10. - Erika Terzuoli, et al. Bradykinin B₂ Receptor Contributes to Inflammatory Responses in Human Endothelial Cells by the Transactivation of the Fibroblast Growth Factor Receptor FGFR-1. <i>Int J Mol Sci.</i> 2018 Sep 6;19(9):2638. - Paola Cucchi, et al. MEN16132, a Novel Potent and Selective Nonpeptide Antagonist for the Human Bradykinin B₂ Receptor. <i>In Vitro Pharmacology and Molecular Characterization. Eur J Pharmacol.</i> 2005 Dec 28;528(1-3):7-16.

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/adenosine-5-methylenediphosphate-hydrate/227044>