

Product Name: PSB 12379

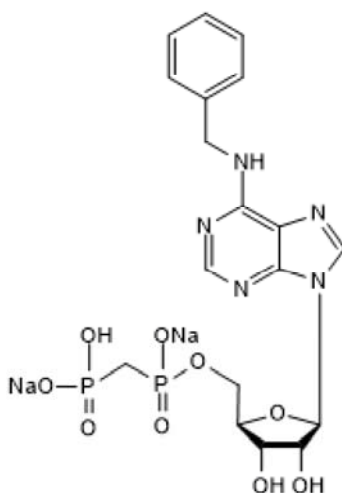
Catalog No.: 6083

Batch No.: 5

IUPAC Name: *N*⁶-Benzyl- α,β -methyleneadenosine 5'-diphosphate disodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₈ H ₂₁ N ₅ Na ₂ O ₉ P ₂
Batch Molecular Weight:	559.31
Physical Appearance:	Colourless liquid
Solubility:	Soluble in water (supplied pre-dissolved at a concentration of 10mM)
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 100.0% purity
Mass Spectrum:	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: PSB 12379

Catalog No.: 6083

5

IUPAC Name: N⁶-Benzyl- α,β -methyleneadenosine 5'-diphosphate disodium salt

Description:

PSB 12379 is a selective high affinity ecto-5'-nucleotidase/CD73 inhibitor (K_i values are 2.21 and 9.03 nM at human and rat CD73, respectively). Blocks ecto-5'-nucleotidase-mediated adenosine production by preventing the conversion of AMP to adenosine. Exhibits selectivity over other ecto-nucleotidases and ADP-activated P2Y receptors tested.

Physical and Chemical Properties:

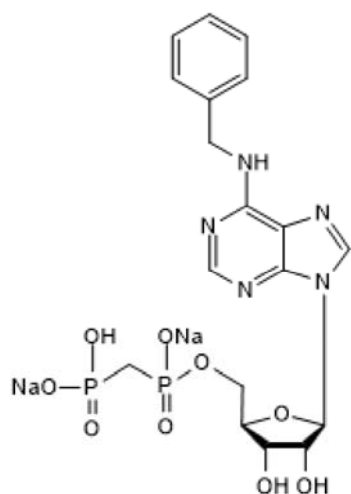
Batch Molecular Formula: C₁₈H₂₁N₅Na₂O₉P₂

Batch Molecular Weight: 559.31

Physical Appearance: Colourless liquid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in water (supplied pre-dissolved at a concentration of 10mM)

This compound is supplied in aqueous solution at a concentration of 10mM.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Weinmann et al (2016) Cancer immunotherapy: selected targets and small-molecule modulators. *Chem.Med.Chem.* **11** 450. PMID: 26836578.

Bhattarai et al (2015) α,β -methylene-ADP (AOPCP) derivatives and analogues: development of potent and selective ecto-5'-nucleotidase (CD73) inhibitors. *J.Med.Chem.* **58** 6248. PMID: 26147331.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956