

Product Name: AR-C 66096 tetrasodium salt

Catalog No.: 3321

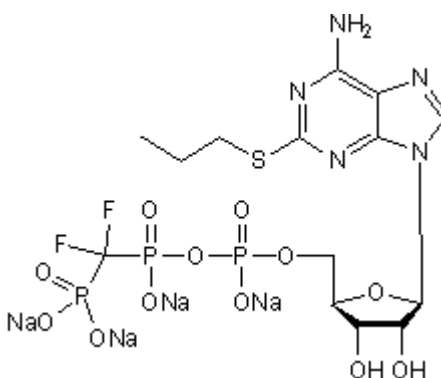
Batch No.: 2

CAS Number: 145782-74-7

IUPAC Name: 2-(Propylthio)adenosine-5'-O-(β,γ-difluoromethylene)triphosphate tetrasodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₈F₂N₅Na₄O₁₂P₃S
Batch Molecular Weight: 703.26
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 99.6% purity
Mass Spectrum: Consistent with structure

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

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Description:

Potent and selective P2Y₁₂ receptor antagonist. Blocks ADP-induced inhibition of adenylyl cyclase in vitro ($pK_B = 7.6$) and inhibits ADP-induced aggregation of washed human platelets ($pIC_{50} = 8.16$).

Physical and Chemical Properties:

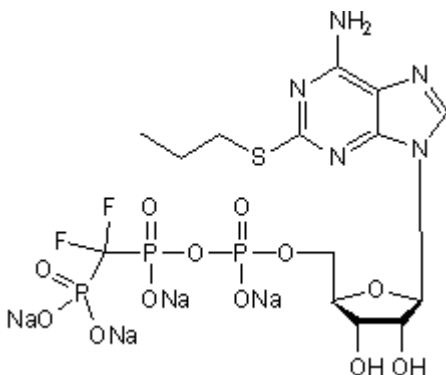
Batch Molecular Formula: C₁₄H₁₈F₂N₅Na₄O₁₂P₃S

Batch Molecular Weight: 703.26

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)

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:

Humphries et al (1994) FPL 66096: a novel, highly potent and selective antagonist at human platelet P2T-purinoceptors. Br.J.Pharmacol. **113** 1057. PMID: 7858849.

Ingall et al (1999) Antagonists of the platelet P receptor: a novel approach to antithrombotic therapy. J.Med.Chem. **42** 213. PMID: 9925726.

Simon et al (2001) Activity of adenosine diphosphates and triphosphates on a P2YT-type receptor in brain capillary endothelial cells. Br.J.Pharmacol. **132** 173. PMID: 11156575.

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