

Product Name: AR-C 69931 tetrasodium salt

Catalog No.: 5720

Batch No.: 1

CAS Number: 163706-36-3

IUPAC Name: *N*-[2-(Methylthio)ethyl]-2-[(3,3,3-trifluoropropyl)thio]adenosine-5'-*O*-(β,γ -dichloromethylene)triphosphate tetrasodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₁Cl₂F₃N₅Na₄O₁₂P₃S₂

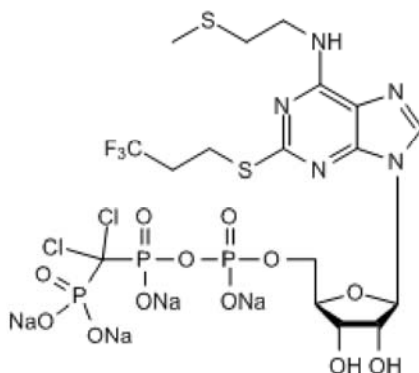
Batch Molecular Weight: 864.29

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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Description:

Highly potent P2Y₁₂ antagonist (IC₅₀ = 0.4 nM). Inhibits ADP-induced human platelet aggregation ex vivo. Reduces thrombus weight and delays thrombus formation in a model of carotid artery thrombosis in vivo.

Physical and Chemical Properties:

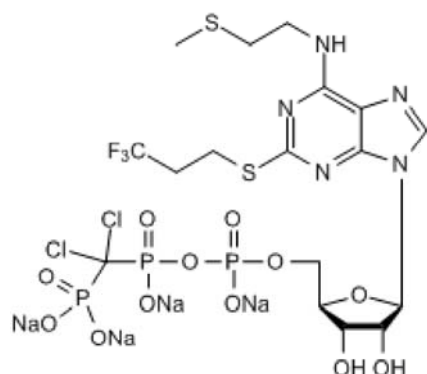
Batch Molecular Formula: C₁₇H₂₁Cl₂F₃N₅Na₄O₁₂P₃S₂

Batch Molecular Weight: 864.29

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Srinivasan et al (2009) The P2Y₁₂ antagonists, 2-methylthioadenosine 5'-monophosphate triethylammonium salt and cangrelor (ARC69931MX), can inhibit human platelet aggregation through a G_i-independent increase in cAMP levels. *J.Biol.Chem.* **284** 16108. PMID: 19346255.

Huang et al (2000) Prevention of arterial thrombosis by intravenously administered platelet P_{2T} receptor antagonist AR-C69931MX in a canine model. *J.Pharmacol.Exp.Ther.* **295** 492. PMID: 11046080.

Ingall et al (1999) Antagonists of the platelet P_{2T} receptor: a novel approach to antithrombotic therapy. *J.Med.Chem.* **42** 213. PMID: 9925726.

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