

**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:** C<sub>17</sub>H<sub>21</sub>Cl<sub>2</sub>F<sub>3</sub>N<sub>5</sub>Na<sub>4</sub>O<sub>12</sub>P<sub>3</sub>S<sub>2</sub>

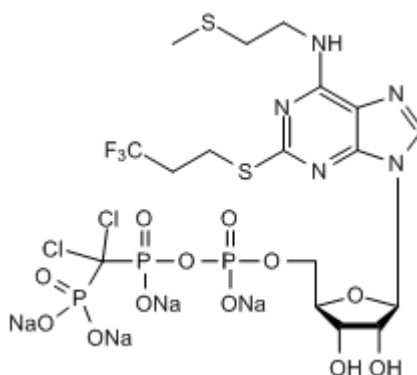
**Batch Molecular Weight:** 864.29

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

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

**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

**Description:**

Highly potent P2Y<sub>12</sub> antagonist (IC<sub>50</sub> = 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:**

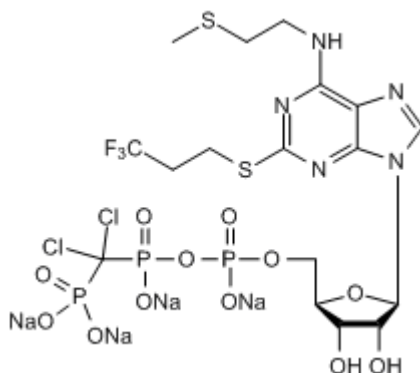
Batch Molecular Formula: C<sub>17</sub>H<sub>21</sub>Cl<sub>2</sub>F<sub>3</sub>N<sub>5</sub>Na<sub>4</sub>O<sub>12</sub>P<sub>3</sub>S<sub>2</sub>

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

**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 P2Y<sub>12</sub> antagonists, 2-methylthioadenosine 5'-monophosphate triethylammonium salt and cangrelor (ARC69931MX), can inhibit human platelet aggregation through a G<sub>i</sub>-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<sub>2T</sub> 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<sub>2T</sub> receptor: a novel approach to antithrombotic therapy. *J.Med.Chem.* **42** 213. PMID: 9925726.

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