

**Product Name:** ARL 67156 trisodium salt

**Catalog No.:** 1283

**Batch No.:** 17

CAS Number: 1021868-83-6

IUPAC Name: 6-*N,N*-Diethyl-D-β,γ-dibromomethyleneATP trisodium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>21</sub>Br<sub>2</sub>N<sub>5</sub>O<sub>12</sub>P<sub>3</sub>·3Na·5¼H<sub>2</sub>O

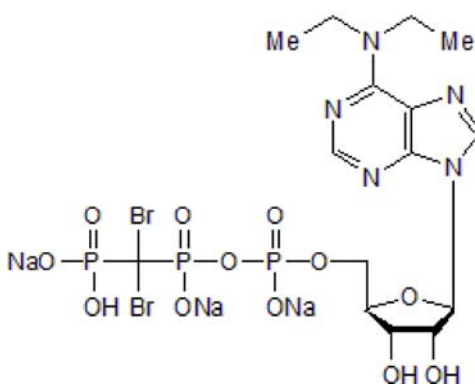
**Batch Molecular Weight:** 879.67

**Physical Appearance:** White solid

**Solubility:** water to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.79% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	20.48	3.61	7.96
Found	20.11	3.24	7.68

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IUPAC Name: 6-*N,N*-Diethyl-D- $\beta,\gamma$ -dibromomethyleneATP trisodium salt

**Description:**

Selective NTPDase inhibitor ( $pIC_{50}$  = 4.62 and 5.1 in human blood and rat vas deferens respectively).

**Physical and Chemical Properties:**

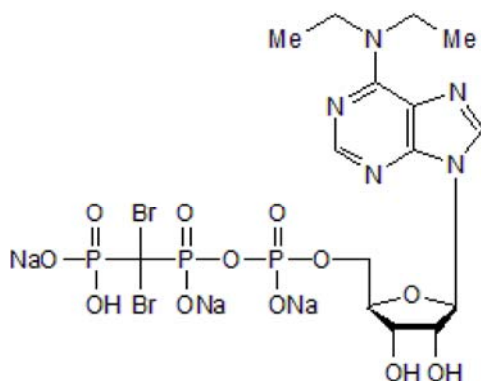
Batch Molecular Formula:  $C_{15}H_{21}Br_2N_5O_{12}P_3 \cdot 3Na \cdot 5\frac{1}{4}H_2O$

Batch Molecular Weight: 879.67

Physical Appearance: White solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}C$

**Solubility & Usage Info:**

water to 20 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  $45-60^{\circ}C$  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  $-20^{\circ}C$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Levesque et al** (2007) Specificity of the ecto-ATPase inhibitor ARL 67156 on human and mouse ectonucleotidases. *Br.J.Pharmacol.* **152** 141. PMID: 17603550.

**Kennedy et al** (1997) Release of soluble nucleotidases: a novel mechanism for neurotransmitter inactivation? *TiPS* **18** 263. PMID: 9277128.

**Westfall et al** (1997) The ecto-ATPase inhibitor ARL 67156 enhances parasympathetic neurotransmission in the guinea pig urinary bladder. *Eur.J.Pharmacol.* **329** 169. PMID: 9226410.

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