bio-techne
TOCRIS

Print Date: Oct 16th 2025

Certificate of Analysis

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Product Name: **ARL 67156 trisodium salt** **Catalog No.: 1283** **Batch No.: 21**

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: $C_{15}H_{21}Br_2N_5O_{12}P_3.3Na.4½H_2O$

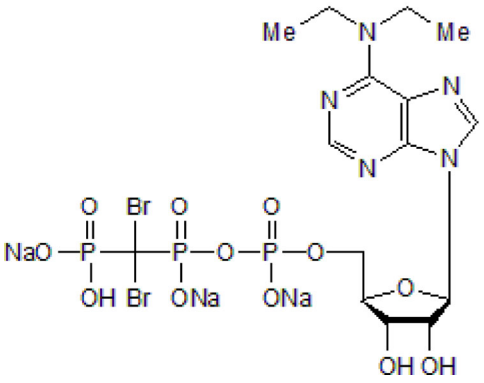
Batch Molecular Weight: 866.13

Physical Appearance: White solid

Solubility: water to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	20.8	3.49	8.09
Found	20.26	3.07	7.61

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Description:

ARL 67156 trisodium salt is a selective NTPDase inhibitor (pIC_{50} = 4.62 and 5.1 in human blood and rat vas deferens respectively). ARL 67156 prevents vascular calcification and extends longevity in Hutchinson-Gilford progeria syndrome mice. ARL 67156 increases neurogenic contract response to nerve stimulation. ARL 67156 enhances parasympathetic neurotransmission in guinea-pig urinary bladder.

Physical and Chemical Properties:

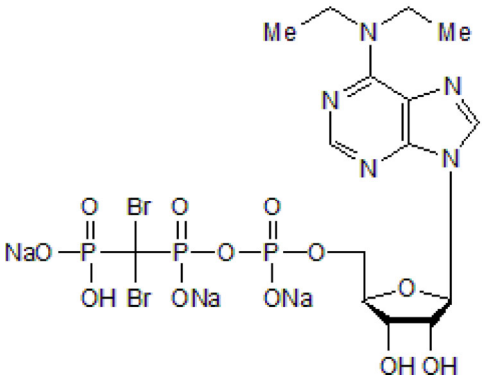
Batch Molecular Formula: $C_{15}H_{21}Br_2N_5O_{12}P_3.3Na.4½H_2O$

Batch Molecular Weight: 866.13

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°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°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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Villa-Bellosta (2019) ATP-based therapy prevents vascular calcification and extends longevity in a mouse model of Hutchinson-Gilford progeria syndrome. Proc.Natl.Acad.Sci.U.S.A. ***116*** 23698. PMID: 31690656.

Levesque *et al* (2007) Specificity of the ecto-ATPase inhibitor ARL 67156 on human and mouse ecotnucleotidases. 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.