

Product Name: ADU-S100 disodium salt

Catalog No.: 7706

Batch No.: 1

CAS Number: 1638750-95-4

IUPAC Name: [P(R)]-5'-O-[(R)-Hydroxymercaptophosphinyl]-P-thioadenylyl-(2'→5')-adenosine cyclic nucleotide disodium

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₂N₁₀Na₂O₁₀P₂S₂

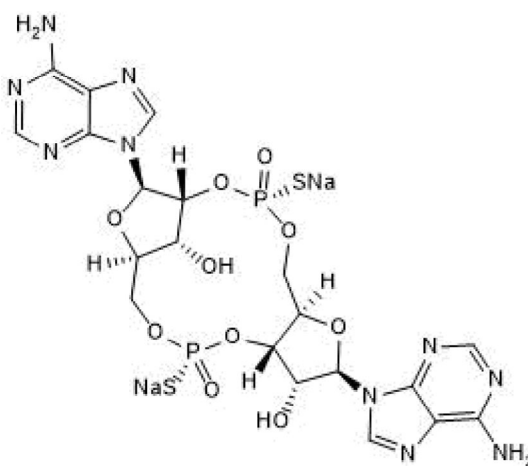
Batch Molecular Weight: 734.5

Physical Appearance: White solid

Solubility: water to 5 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7 % purity

Mass Spectrum: Consistent with structure

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

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IUPAC Name: [P(R)]-5'-O-[(R)-Hydroxymercaptophosphinyl]-P-thioadenylyl-(2'→5')-adenosine cyclic nucleotide disodium

Description:

ADU-S100 disodium salt is a STING agonist. It induces CD8+ T-cell mediated antitumor immunity in a rat esophageal adenocarcinoma model. In mouse tumor models, the compound induces tumor regression and a potent antitumor immune response. ADU-S100 disodium salt induces phosphorylation of TBK1 and IRF3 in murine bone marrow macrophages.

Physical and Chemical Properties:

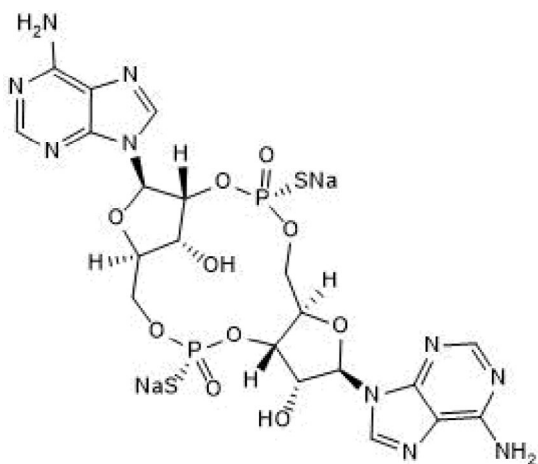
Batch Molecular Formula: C₂₀H₂₂N₁₀Na₂O₁₀P₂S₂

Batch Molecular Weight: 734.5

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Zaidi et al (2021) Intratumoral immunotherapy with STING agonist, ADU-S100, induces CD8+ T-cell mediated anti-tumor immunity in an esophageal adenocarcinoma model. *Oncotarget* **12** 292. PMID: 33659041.

Corrales et al (2015) Direct activation of STING in the tumor microenvironment leads to potent and systemic tumor regression and immunity. *Cell Rep.* **11** 1018. PMID: 25959818.

Storage: Store at -20°C

Solubility & Usage Info:

water to 5 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. *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.

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