

**Product Name:** Galidesivir dihydrochloride

**Catalog No.:** 7229

**Batch No.:** 1

CAS Number: 1373208-51-5

IUPAC Name: (2*S*,3*S*,4*R*,5*R*)-2-(4-Amino-5*H*-pyrrolo[3,2-*d*]pyrimidin-7-yl)-5-(hydroxymethyl)-3,4-pyrrolidinediol dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>11</sub>H<sub>15</sub>N<sub>5</sub>O<sub>3</sub>·2HCl.

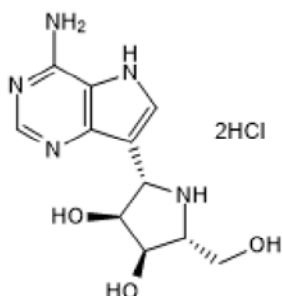
**Batch Molecular Weight:** 338.19

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.0% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	39.07	5.07	20.71	20.96
Found	38.65	4.95	20.48	20.98

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

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**Description:**

Galidesivir is a viral RNA-dependent RNA polymerase (RdRP) inhibitor and broad spectrum antiviral nucleotide. In vitro, galidesivir displays antiviral activity against a range of RNA viruses, including bunyaviruses, arenaviruses, paramyxoviruses, coronaviruses, and flaviviruses (EC<sub>50</sub> values range from 3 μM to >100 μM). Galidesivir protects against Ebola and Marburg viral infection in animal models.

**Physical and Chemical Properties:**

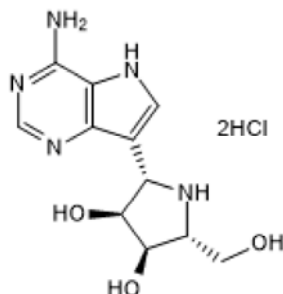
Batch Molecular Formula: C<sub>11</sub>H<sub>15</sub>N<sub>5</sub>O<sub>3</sub>·2HCl.

Batch Molecular Weight: 338.19

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

Li & De Clercq (2020) Therapeutic options for the 2019 novel coronavirus (2019-nCoV). *Nat.Rev.Drug Discov.* **19** 149. PMID: 32127666.

Warren *et al* (2014) Protection against filovirus diseases by a novel broad-spectrum nucleoside analogue BCX4430. *Nature.* **508** 402. PMID: 24590073.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 50 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.

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