

**Product Name:** Pritelivir

**Catalog No.:** 7321

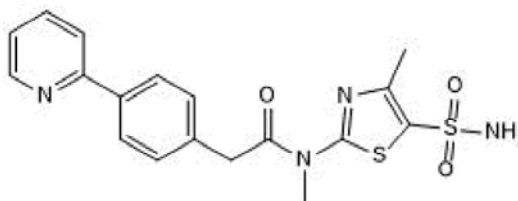
**Batch No.:** 1

CAS Number: 348086-71-5

IUPAC Name: *N*-[5-(Aminosulfonyl)-4-methyl-2-thiazolyl]-*N*-methyl-4-(2-pyridinyl)benzeneacetamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>18</sub>N<sub>4</sub>O<sub>3</sub>S<sub>2</sub>·1½H<sub>2</sub>O  
**Batch Molecular Weight:** 429.51  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 50 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	50.34	4.93	13.04
Found	49.98	4.81	12.92

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

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**Description:**

Pritelivir is a potent and selective herpes simplex virus (HSV) helicase primase inhibitor. Pritelivir inhibits viral replication in Vero cells ( $IC_{50} = 0.02 \mu\text{M}$  for HSV-1 and HSV-2). It also reduces  $\beta$ -amyloid and P-tau levels in Vero cells. Pritelivir is active against clinical isolates and porcine and bovine HSV strains but displays reduced activity against varicella zoster virus and cytomegalovirus in vitro. In addition, the compound exhibits antiviral activity in HSV infected mice.

**Physical and Chemical Properties:**

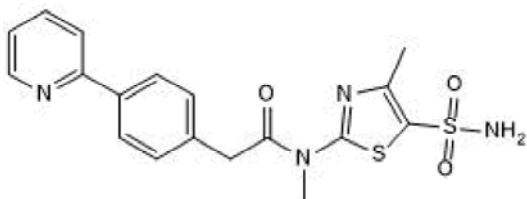
Batch Molecular Formula:  $C_{18}H_{18}N_4O_3S_2 \cdot 1\frac{1}{2}H_2O$

Batch Molecular Weight: 429.51

Physical Appearance: Off White solid

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

**Batch Molecular Structure:**



**References:**

**Wozniak et al** (2013) The helicase-primase inhibitor BAY 57-1293 reduces the Alzheimer's disease-related molecules induced by herpes simplex virus type 1. *Antiviral Res.* **99** 401. PMID: 23867133.

**Kleymann et al** (2002) New helicase-primase inhibitors as drug candidates for the treatment of herpes simplex disease. *Nat.Med.* **8** 392. PMID: 11927946.

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

**Solubility & Usage Info:**

DMSO to 50 mM with gentle warming

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a  $45\text{-}60^{\circ}\text{C}$  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  $-20^{\circ}\text{C}$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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**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