

**Product Name:** BS 181 dihydrochloride

**Catalog No.:** 5608

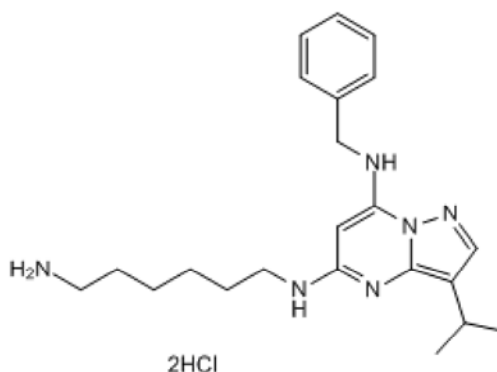
**Batch No.:** 1

CAS Number: 1883548-83-1

IUPAC Name: *N*<sup>5</sup>-(6-Aminohexyl)-3-(1-methylethyl)-*N*<sup>7</sup>-(phenylmethyl)pyrazolo[1,5-*a*]pyrimidine-5,7-diamine dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>32</sub>N<sub>6</sub>.2HCl  
**Batch Molecular Weight:** 453.45  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
DMSO to 100 mM  
ethanol to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	58.27	7.56	18.53	15.64
Found	57.92	7.32	18.36	15.65

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CAS Number: 1883548-83-1

IUPAC Name: *N*<sup>5</sup>-(6-Aminoethyl)-3-(1-methylethyl)-*N*<sup>7</sup>-(phenylmethyl)pyrazolo[1,5-*a*]pyrimidine-5,7-diamine dihydrochloride

**Description:**

Selective cdk7 inhibitor (IC<sub>50</sub> = 21 nM). Displays >40-fold selectivity for cdk7 over others cdks. Promotes cell cycle arrest and apoptosis in a range of cancer cells in vitro and inhibits MCF-7 tumor xenograft growth in mice.

**Physical and Chemical Properties:**

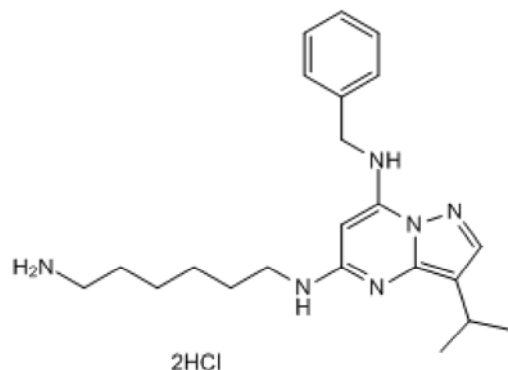
Batch Molecular Formula: C<sub>22</sub>H<sub>32</sub>N<sub>6</sub>.2HCl

Batch Molecular Weight: 453.45

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 mM

ethanol 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.

**References:**

Ali *et al* (2009) The development of a selective cyclin-dependent kinase inhibitor that shows antitumor activity. *Cancer Res.* **69** 6208. PMID: 19638587.

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