

Product Name: BS 181 dihydrochloride

Catalog No.: 5608

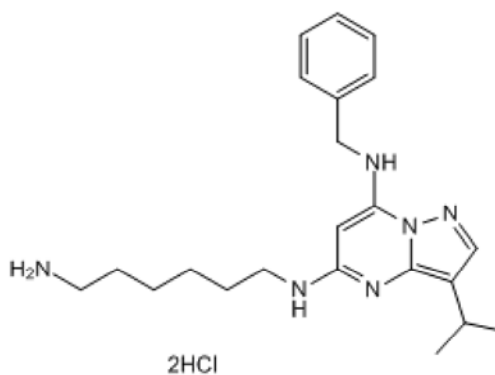
Batch No.: 1

CAS Number: 1883548-83-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---|
| Batch Molecular Formula: | C ₂₂ H ₃₂ N ₆ .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 |
| ¹H 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 | |

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

Product Name: BS 181 dihydrochloride

Catalog No.: 5608

Batch No.: 1

CAS Number: 1883548-83-1

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

Description:

BS 181 dihydrochloride is a selective cdk7 inhibitor (IC₅₀ = 21 nM). Displays >40-fold selectivity for cdk7 over other cdk's. 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:

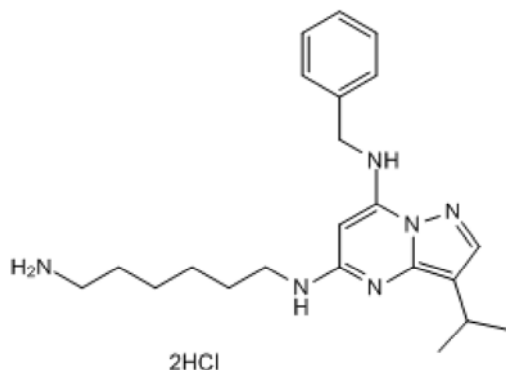
Batch Molecular Formula: C₂₂H₃₂N₆.2HCl

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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