

# **Certificate of Analysis**

Print Date: Jul 14th 2025

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Product Name: BX 795 Catalog No.: 4318 Batch No.: 2

CAS Number: 702675-74-9

IUPAC Name: N-[3-[[5-lodo-4-[[3-[(2-thienylcarbonyl)amino]propyl]amino]-2-pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{23}H_{26}IN_7O_2S.\frac{1}{4}H_2O$ 

**Batch Molecular Weight:** 595.97 **Physical Appearance:** White solid

Solubility: DMSO to 100 mM

ethanol to 100 mM

Storage: Store at -20°C

**Batch Molecular Structure:** 

### 2. ANALYTICAL DATA

**TLC:**  $R_f = 0.63$  (Ethyl acetate)

**HPLC:** Shows 98.8% purity

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

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 46.35 4.48 16.45 Found 46.09 4.54 16.29

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## **Product Information**

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### **Description:**

BX 795 is an inhibitor of 3-phosphoinositide-dependent kinase 1 (PDPK1). Inhibits Akt phosphorylation at Thr308 in PC3 cells; also inhibits anchorage-independent growth of PC3 and MDA-MB-468 cells. Exhibits activity at other kinases, including TANK-binding kinase 1 (TBK1), Aurora B and IkB kinase  $\epsilon$  (IKK $\epsilon$ ). Also enhances lentiviral transduction of natural killer (NK) cells by around 3.8-fold.

### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>23</sub>H<sub>26</sub>IN<sub>7</sub>O<sub>2</sub>S.½H<sub>2</sub>O

Batch Molecular Weight: 595.97 Physical Appearance: White solid

### Minimum Purity: ≥98%

### **Batch Molecular Structure:**

### Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

### Solubility & Usage Info:

DMSO to 100 mM ethanol to 100 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. \*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.

### References:

**Sutlu** *et al* (2012) Inhibition of intracellular antiviral defense mechanisms augments lentiviral transduction of human natural killer cells: implications for gene therapy. Hum. Gene Ther. **23** 1090. PMID: 22779406.

Clark *et al* (2009) Use of the pharmacological inhibitor BX795 to study the regulation and physiological roles of TBK1 and IκB kinase ε: a distinct upstream kinase mediates Ser-172 phosphorylation and activati J.Biol.Chem. **284** 14136. PMID: 19307177.

**Tamguney** *et al* (2008) Analysis of 3-phosphoinositide-dependent kinase-1 signaling and function in ES cells. Exp.Cell Res. *314* 2299. PMID: 18514190.

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