



# **Certificate of Analysis**

www.tocris.com

**Product Name: JPS016** Catalog No.: 8083 Batch No.: 1

2669785-77-5 CAS Number:

**IUPAC Name:** 

dimethylbutanoyl)-4-hydroxy-N-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>48</sub>H<sub>63</sub>N<sub>7</sub>O<sub>8</sub>S.½H<sub>2</sub>O

**Batch Molecular Weight:** 907.14

**Physical Appearance:** Off White solid DMSO to 10 mM Solubility: Store at -20°C Storage:

**Batch Molecular Structure:** 

## 2. ANALYTICAL DATA

HPLC: Shows 97.8% purity

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

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 63.55 7.11 10.81 62.8 Found 7.08 10.6

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

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## **Product Information**

Print Date: Dec 2<sup>nd</sup> 2025

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Product Name: JPS016 Catalog No.: 8083 Batch No.: 1

CAS Number: 2669785-77-5

IUPAC Name: (2S,4R)-1-((S)-2-(2-((9-(2-((4-((2-Aminophenyl)carbamoyl)phenyl)amino)-2-oxoethoxy)nonyl)oxy)acetamido)-3,3-

dimethylbutanoyl)-4-hydroxy-N-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide

## **Description:**

JSP016 is a selective Degrader (PROTAC®) and inhibitor of class I HDACs (DC $_{50}$  values are 530 nM and 550 nM for HDAC3 and HDAC1; D $_{max}$  is 77%, 66% and 45% at HDAC1, 3 and 2; IC $_{50}$  values are 380 nM, 570 nM and 820 nM at HDAC3, 1 and 2). Comprises a benzamide-based compound joined by a linker to a Von Hippel Lindau (VHL) E3 ligase ligand. JPS016 treatment up- or down-regulates nearly 4000 differentially expressed genes, arrests cells at sub-G $_{1}$  phase and promotes apoptosis in HCT116 cells. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Please see product specific page on www.tocris.com for full description.

## **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>48</sub>H<sub>63</sub>N<sub>7</sub>O<sub>8</sub>S.½H<sub>2</sub>O

Batch Molecular Weight: 907.14 Physical Appearance: Off White solid

**Minimum Purity:** ≥97%

#### **Batch Molecular Structure:**

Storage: Store at -20°C

## Solubility & Usage Info:

DMSO to 10 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.

#### **Licensing Information:**

Sold under license from the University of Leicester

References:

**Smalley** *et al* (2022) Optimization of class I histone deacetylase PROTACs reveals that HDAC1/2 degradation is critical to induce apoptosis and cell arrest in cancer cells. J.Med.Chem. *65* 5642. PMID: 35293758.

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