

Product Name: JB 300

Catalog No.: 7837

Batch No.: 1

CAS Number: 3038446-90-8

IUPAC Name: *trans*-4-(3-Chloro-2-fluorophenoxy)-*N*-(2-(2-(2-(2-((2,6-dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)oxy)acetamido)ethoxy)ethoxy)ethyl)-1-((6-(thiazol-2-ylamino)pyridin-2-yl)methyl)cyclohexane-1-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₃H₄₅ClFN₇O₁₀S.1/4H₂O

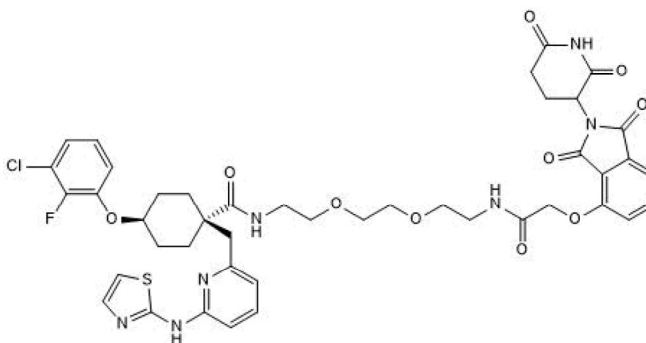
Batch Molecular Weight: 910.88

Physical Appearance: Light yellow solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.7	5.04	10.76
Found	55.82	4.96	10.51

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

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

Product Name: JB 300

Catalog No.: 7837

1

CAS Number: 3038446-90-8

IUPAC Name: *trans*-4-(3-Chloro-2-fluorophenoxy)-*N*-(2-(2-(2-(2-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)oxy)acetamido)ethoxy)ethoxy)ethyl)-1-((6-(thiazol-2-ylamino)pyridin-2-yl)methyl)cyclohexane-1-carboxamide

Description:

JB 300 is a potent and selective Aurora A Degradator (PROTAC®; DC₅₀ = 30 nM and D_{max} = 78%). It comprises a cereblon E3-ligase ligand Thalidomide (Cat. No. 0652) joined by a PEG2 linker to the Aurora A inhibitor MK-5108. The compound depletes Aurora A in MV4-11 cell lines and exhibits no degradation of Aurora B at 10 μM. JB 300 shows dose-dependent cytotoxicity in AML cells. Aurora A antibodies validated for Simple Western™ (automated Western) instruments and Western Blot also available: Catalog # AF3295 and NBP1-51843. 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:

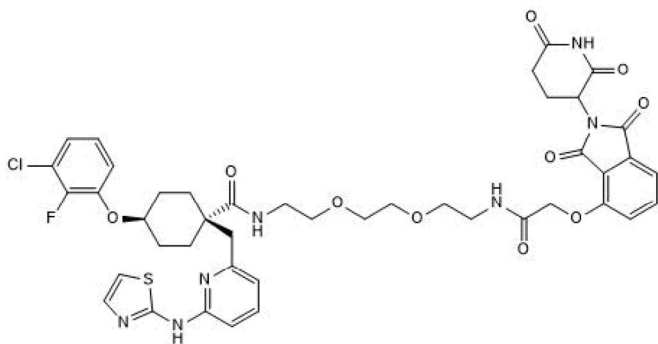
Batch Molecular Formula: C₄₃H₄₅ClFN₇O₁₀S.¼H₂O

Batch Molecular Weight: 910.88

Physical Appearance: Light yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Bozolovic et al (2022) Novel, highly potent PROTACs targeting AURORA-A kinase. *Curr.Res.Chem.Biol.* **2** 100032.

Adhikari et al (2020) PROTAC-mediated degradation reveals a non-catalytic function of AURORA-A kinase. *Nat.Chem.Biol.* **16** 1179. PMID: 32989298.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 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 University of Würzburg

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

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