

**Product Name:** MS 147

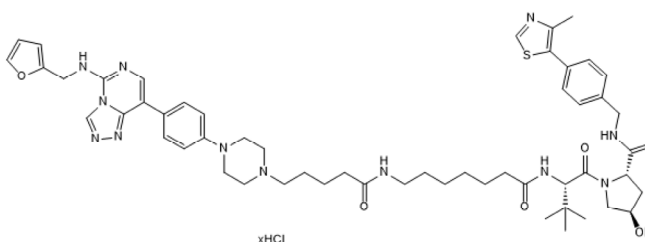
**Catalog No.:** 8077

**Batch No.:** 1

**IUPAC Name:** (2*S*,4*R*)-1-((*S*)-2-(7-(5-(4-(4-(5-((Furan-2-ylmethyl)amino)-[1,2,4]triazolo[4,3-*c*]pyrimidin-8-yl)phenyl)piperazin-1-yl)pentanamido)heptanamido)-3,3-dimethylbutanoyl)-4-hydroxy-*N*-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>54</sub>H<sub>70</sub>N<sub>12</sub>O<sub>6</sub>S.2.5HCl.2<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O  
**Batch Molecular Weight:** 1155.99  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 50 mg/ml  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 97.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	56.11	6.8	14.54	7.67
Found	55.25	6.61	14.17	7.11

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

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**Description:**

MS 147 is a polycomb repressive complex 1 (PRC1) Degradator (PROTAC®) ( $K_d$  values are 450 nM and 3  $\mu$ M for VHL and EED, respectively). Comprises an EED binder (EED 226, Cat. No. 7762) joined by a linker to a VHL E3 ligase ligand. MS 147 preferentially degrades BMI1 and RING1B and reduces H2AK119ub in K562 cells. Inhibits proliferation in cancer cell lines that are insensitive to EZH2 knockout or EED/PRC2 Degradators. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

**Physical and Chemical Properties:**

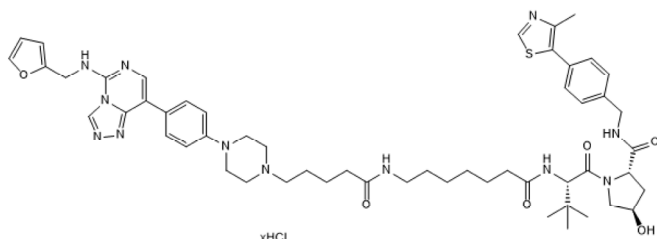
Batch Molecular Formula: C<sub>54</sub>H<sub>70</sub>N<sub>12</sub>O<sub>6</sub>S.2.5HCl.2 $\frac{3}{4}$ H<sub>2</sub>O

Batch Molecular Weight: 1155.99

Physical Appearance: Off White solid

**Minimum Purity:**  $\geq$ 97%

**Batch Molecular Structure:**



**References:**

**Park et al** (2023) Targeted degradation of PRC1 components, BMI1 and RING1B, via a novel protein complex degrader strategy. *Adv.Sci. (Weinh.)* **10** e2205573. PMID: 36737841.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 50 mg/ml

**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 Icahn School of Medicine at Mount Sinai.

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**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