

Product Name: MS 143

Catalog No.: 8081

Batch No.: 1

CAS Number: 2376137-41-4

IUPAC Name: 4-Amino-*N*-((*S*)-1-(4-chlorophenyl)-3-(4-(12-(((*S*)-1-((2*S*,4*R*)-4-hydroxy-2-((4-(4-methylthiazol-5-yl)benzyl)carbamoyl)pyrrolidin-1-yl)-3,3-dimethyl-1-oxobutan-2-yl)amino)-12-oxododecanoyl)piperazin-1-yl)propyl)-1-(7*H*-pyrrolo[2,3-*d*]pyrimidin-4-yl)piperidine-4-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₉H₈₁ClN₁₂O₆S.

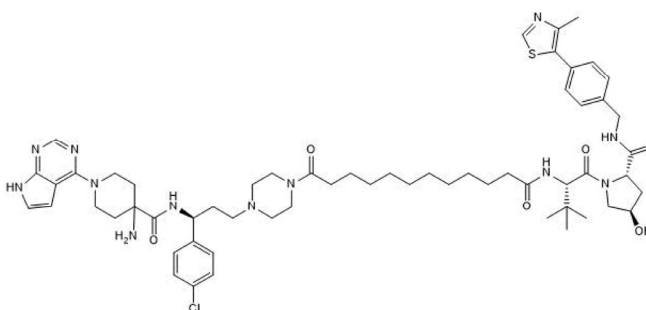
Batch Molecular Weight: 1121.89

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.17	7.28	14.98
Found	62.88	7.31	14.55

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

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Description:

MS 143 is a potent and selective AKT kinase Degradator (PROTAC®) (DC₅₀ = 46 nM). MS 143 induces rapid and robust AKT degradation in a concentration- and time-dependent manner via hijacking the ubiquitin-proteasome system. MS 143 suppresses cell growth in prostate cancer PC3 cells. In vivo, MS 143 suppresses tumor growth in a PC3 cell line xenograft mice model. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

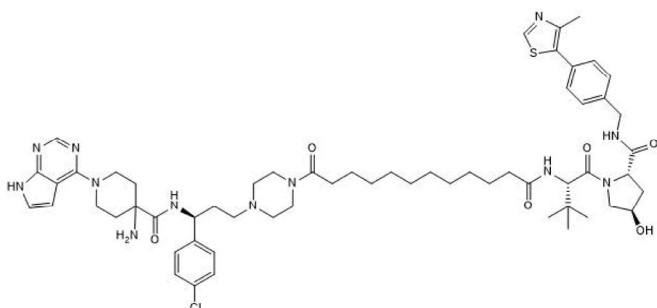
Batch Molecular Formula: C₅₉H₈₁ClN₁₂O₆S.

Batch Molecular Weight: 1121.89

Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



References:

Yu *et al* (2022) Discovery of potent, selective, and *in vivo* efficacious AKT kinase protein degraders via structure-activity relationship studies. *J.Med.Chem.* **65** 3644. PMID: 35119851.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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.

Licensing Information:

Sold under license from Icahn School of Medicine at Mount Sinai.

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