

Product Name: MS 4322

Catalog No.: 8080

Batch No.: 1

CAS Number: 2375432-47-4

IUPAC Name: *N*-((*S*)-3-(3,4-Dihydroisoquinolin-2(*H*)-yl)-2-hydroxypropyl)-6-((1-((*S*)-19-((2*S*,4*R*)-4-hydroxy-2-(((*S*)-1-(4-(4-methylthiazol-5-yl)phenyl)ethyl)carbamoyl)pyrrolidine-1-carbonyl)-20,20-dimethyl-17-oxo-3,6,9,12,15-pentaoxa-18-azahenicosanoyl)azetidin-3-yl)amino)pyrimidine-4-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₅H₇₆N₁₀O₁₂S.1½H₂O

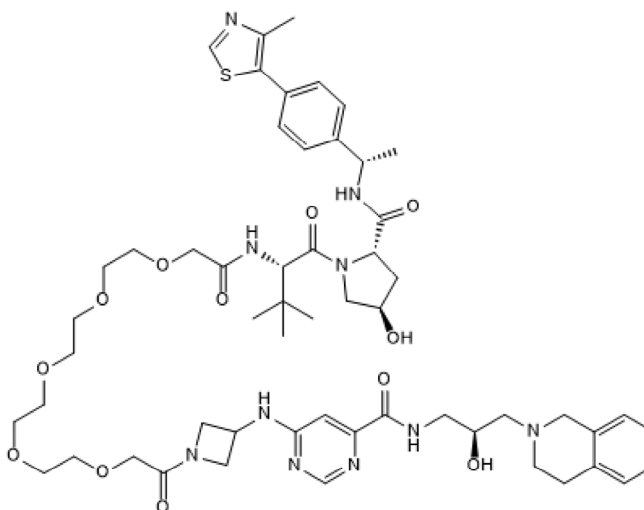
Batch Molecular Weight: 1128.35

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.55	7.06	12.41
Found	57.65	6.8	11.95

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Description:

MS 4322 is a protein arginine methyltransferase 5 (PRMT5) Degradar (PROTAC[®]) (DC₅₀ = 1.1 μM, D_{max} = 74% in MCF-7 cells). Also inhibits PRMT5 methyltransferase activity (IC₅₀ = 18 nM) and dose-dependently inhibits proliferation of HeLa, A549, A172 and Jurkat cancer cell lines. Comprises a PRMT5 inhibitor linked to an E3 ligase ligand.

Physical and Chemical Properties:

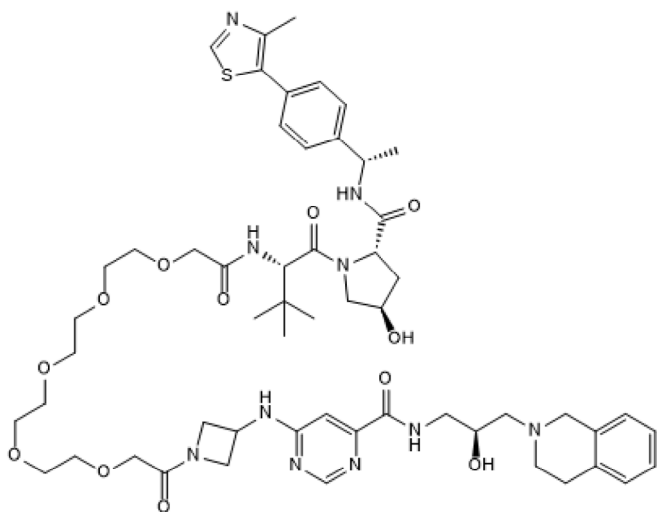
Batch Molecular Formula: C₅₅H₇₆N₁₀O₁₂S.1½H₂O

Batch Molecular Weight: 1128.35

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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.

References:

Shen *et al* (2020) Discovery of first-in-class protein arginine methyltransferase 5 (PRMT5) degraders. *J.Med.Chem.* **63** 9977. PMID: 32787082.

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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