

**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:** C<sub>55</sub>H<sub>76</sub>N<sub>10</sub>O<sub>12</sub>S.1½H<sub>2</sub>O

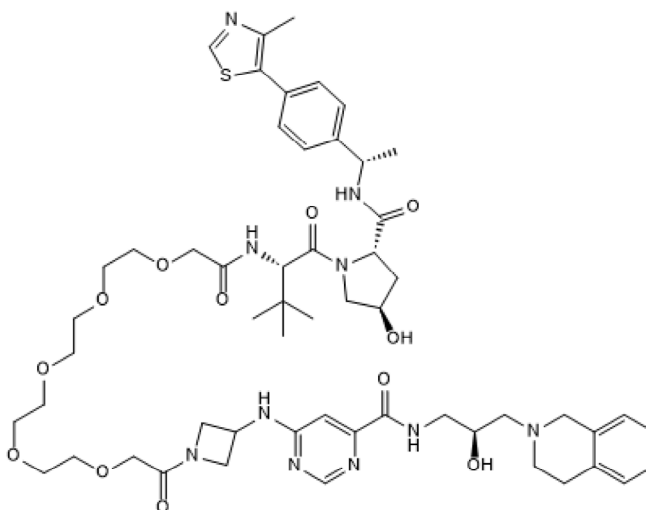
**Batch Molecular Weight:** 1128.35

**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

**<sup>1</sup>H 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

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

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**Description:**

MS 4322 is a protein arginine methyltransferase 5 (PRMT5) Degradar (PROTAC<sup>®</sup>) (DC<sub>50</sub> = 1.1 μM, D<sub>max</sub> = 74% in MCF-7 cells). Inhibits PRMT5 methyltransferase activity (IC<sub>50</sub> = 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:**

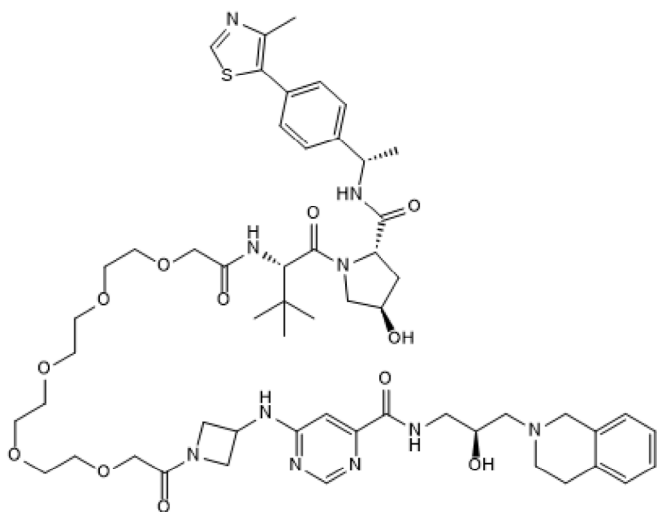
Batch Molecular Formula: C<sub>55</sub>H<sub>76</sub>N<sub>10</sub>O<sub>12</sub>S.1½H<sub>2</sub>O

Batch Molecular Weight: 1128.35

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

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

**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.

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