

Product Name: PPM-3

Catalog No.: 8116

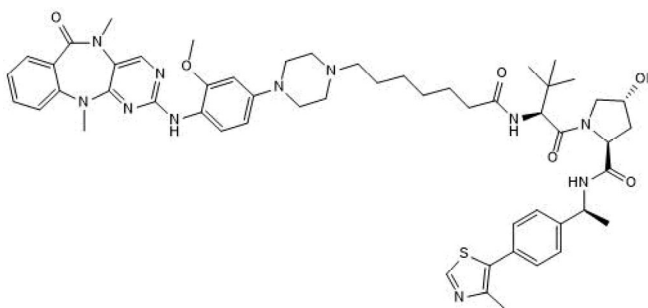
Batch No.: 1

CAS Number: 3032388-42-1

IUPAC Name: (2*S*,4*R*)-1-((*S*)-2-(7-(4-(4-((5,11-Dimethyl-6-oxo-6,11-dihydro-5*H*-benzo[e]pyrimido[5,4-*b*][1,4]diazepin-2-yl)amino)-3-methoxyphenyl)piperazin-1-yl)heptanamido)-3,3-dimethylbutanoyl)-4-hydroxy-*N*-((*S*)-1-(4-(4-methylthiazol-5-yl)phenyl)ethyl)pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₅₄ H ₆₉ N ₁₁ O ₆ S.
Batch Molecular Weight:	1000.28
Physical Appearance:	Off 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	64.84	6.95	15.4
Found	63.96	7.05	14.92

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

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Description:

PPM-3 is a potent and selective ERK5 Degrader (PROTAC®) (IC₅₀ = 62.4 nM). PPM-3 degrades ERK5 in HCT116, h1975, HepG2, MDA-MB-231, PC-3, and A375 tumor cell lines (DC₅₀ values are 5.6, 11.5, 13.7, 22.7, 23.5 and 41.4 nM respectively). PPM-3 has no effect on tumor cell growth directly but influences tumor development by affecting the differentiation of macrophages.

Physical and Chemical Properties:

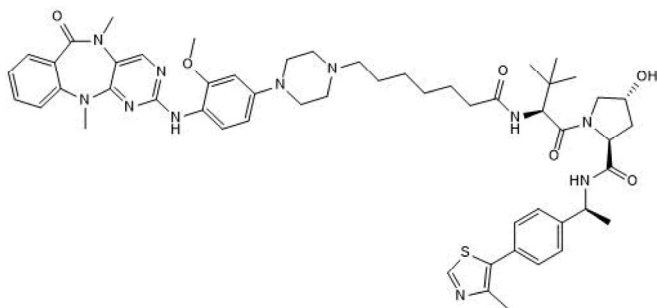
Batch Molecular Formula: C₅₄H₆₉N₁₁O₆S.

Batch Molecular Weight: 1000.28

Physical Appearance: Off 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:

Pan *et al* (2023) Design, synthesis, and biological evaluation of proteolysis-targeting chimeras as highly selective and efficient degraders of extracellular signal-regulated kinase 5. *J.Med.Chem.* **66** 13568. PMID: 37751283.

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