

Product Name: VZ 185

Catalog No.: 6936

Batch No.: 2

CAS Number: 2306193-61-1

IUPAC Name: (2*S*,4*R*)-*N*-(2-((5-(4-(2,6-Dimethoxy-4-(2-methyl-1-oxo-1,2-dihydro-2,7-naphthyridin-4-yl)benzyl)piperazin-1-yl)pentyl)oxy)-4-(4-methylthiazol-5-yl)benzyl)-1-((*S*)-2-(1-fluorocyclopropane-1-carboxamido)-3,3-dimethylbutanoyl)-4-hydroxypyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₃H₆₇FN₈O₈S.½H₂O

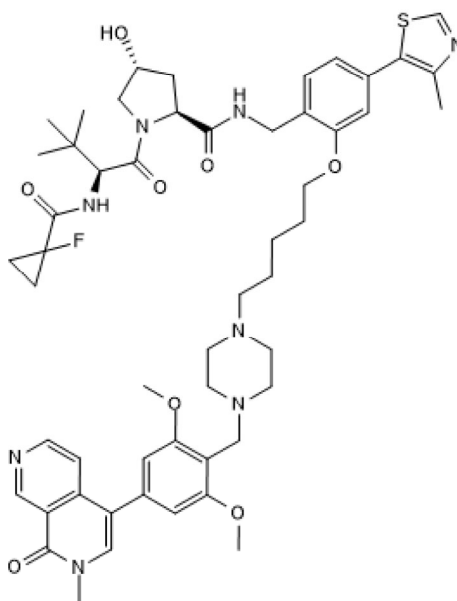
Batch Molecular Weight: 1004.24

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.39	6.82	11.16
Found	63.16	6.82	11.11

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

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CAS Number: 2306193-61-1

IUPAC Name: (2S,4R)-N-(2-((5-(4-(2,6-Dimethoxy-4-(2-methyl-1-oxo-1,2-dihydro-2,7-naphthyridin-4-yl)benzyl)piperazin-1-yl)pentyl)oxy)-4-(4-methylthiazol-5-yl)benzyl)-1-((S)-2-(1-fluorocyclopropane-1-carboxamido)-3,3-dimethylbutanoyl)-4-hydroxypyrrolidine-2-carboxamide

Description:

VZ 185 is a potent and selective VHL-based dual Degradator (PROTAC®) of BRD7/9 (DC₅₀ values are 4 and 34 nM for BRD7 and BRD9, respectively). Exhibits selectivity for BRD7/9 degradation over other bromodomain-containing proteins and other BAF/PBAF subunits. Displays cytotoxicity towards EOL-1 and A-204 cancer cell lines. Negative control cis VZ 185 (Cat. No. 6939) and BRD7 antibody validated for Western Blot also available: Catalog # NBP1-28727. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

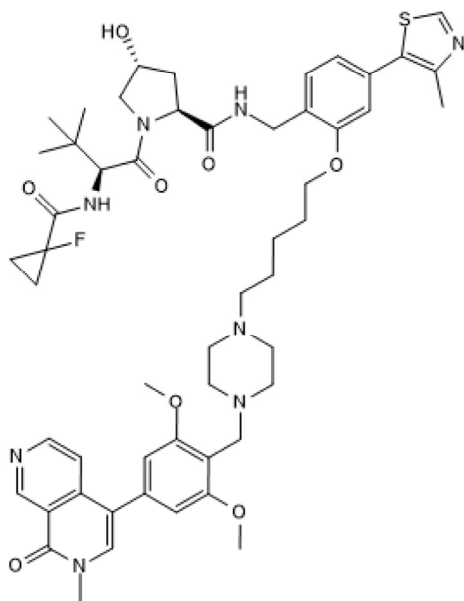
Batch Molecular Formula: C₅₃H₆₇FN₈O₈S.½H₂O

Batch Molecular Weight: 1004.24

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.

Licensing Information:

Sold under licence from the University of Dundee.

References:

Riching et al (2021) Translating PROTAC chemical series optimization into functional outcomes underlying BRD7 and BRD9 protein degradation. *Curr.Res.Chem.Biol.* **1** 100009.

Zoppi et al (2019) Iterative design and optimization of initially inactive Proteolysis Targeting Chimeras (PROTACs) identify VZ185 as a potent, fast, and selective von Hippel-Lindau (VHL) based dual degrader probe of BRD9 and BRD7. *J.Med.Chem.* **62** 699. PMID: 30540463

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