bio-techne
TOCRIS

Print Date: Nov 26th 2024

Certificate of Analysis

www.tocris.com

Product Name: **HDAC4 CHDI Degrader 11** **Catalog No.: 7882** **Batch No.: 2**

CAS Number: 3035189-46-6

IUPAC Name: (2*S*,4*R*)-1-((3*R*,26*S*)-26-(*tert*-Butyl)-3-methyl-1,24-dioxo-5-propyl-1-(4-(5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl) phenyl)-10,13,16,19,22-pentaoxa-2,5,25-triazaheptacosan-27-oyl)-4-hydroxy-*N*-(4-(4-methylthiazol-5-yl)benzyl) pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{52}H_{73}F_3N_8O_{11}S$.

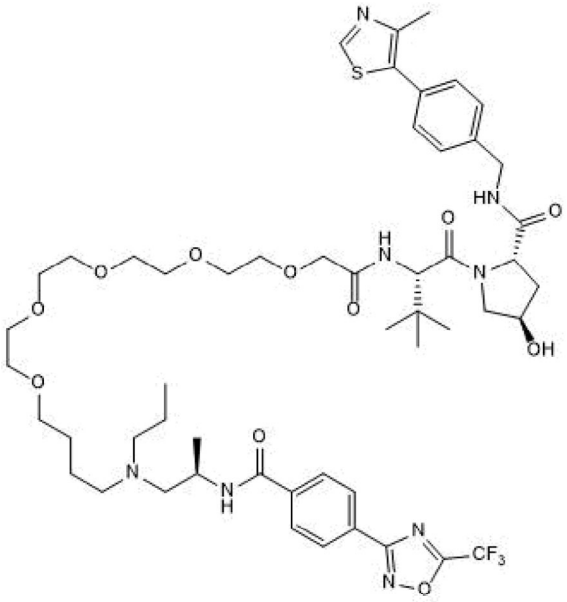
Batch Molecular Weight: 1075.26

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.09	6.84	10.42
Found	57.65	6.46	10.21

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Product Name: HDAC4 CHDI Degrader 11 **Catalog No.: 7882** **2**

CAS Number: 3035189-46-6

IUPAC Name: (2*S*,4*R*)-1-((3*R*,26*S*)-26-(*tert*-Butyl)-3-methyl-1,24-dioxo-5-propyl-1-(4-(5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl) phenyl)-10,13,16,19,22-pentaoxa-2,5,25-triazaheptacosan-27-oyl)-4-hydroxy-*N*-(4-(4-methylthiazol-5-yl)benzyl) pyrrolidine-2-carboxamide

Description:

HDAC4 CHDI Degrader 11 is a potent and selective HDAC4 Degrader (PROTAC®) (DC_{50} values are 4 and 6 nM in Jurkat E6-1 and Jurkat cells respectively). Comprises the class IIa HDAC inhibitor trifluoromethyloxadiazole joined by a linker to a ligand for Von Hippel-Lindau (VHL) protein. In a mouse cell model of Huntington's disease, HDAC4 CHDI Degrader 11 potently degrades HDAC4 (DC_{50} = 1nM). Can be used with P-glycoprotein inhibitor Elacridar (Cat. No. 4646) for more effective degradation in neuroblastoma cell lines. HDAC4 antibody validated for Simple Western™ (automated Western) instruments also available: Catalog # NBP2-22151.PR... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

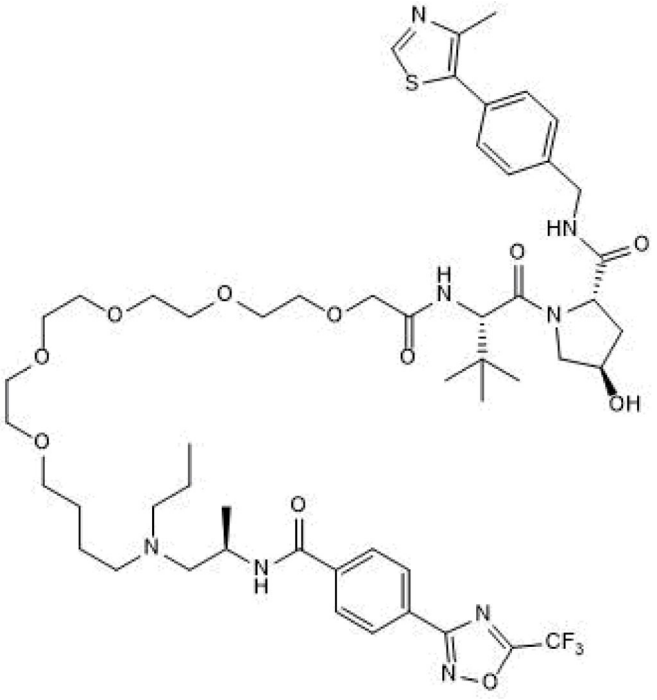
Batch Molecular Formula: $C_{52}H_{73}F_3N_8O_{11}S$.

Batch Molecular Weight: 1075.26

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

DMSO to 50 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Macabuag *et al.* (2022) Developing HDAC4 selective protein degraders to investigate the role of HDAC4 in Huntington's disease pathology. J Med Chem. ***6512445***. PMID: 36098485