bio-techne
TOCRIS

Print Date: Nov 11th 2024

Certificate of Analysis

www.tocris.com

Product Name: **HDAC4 CHDI Degrader 11** **Catalog No.: 7882** **Batch No.: 1**

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: $C_{52}H_{73}F_3N_8O_{11}S$

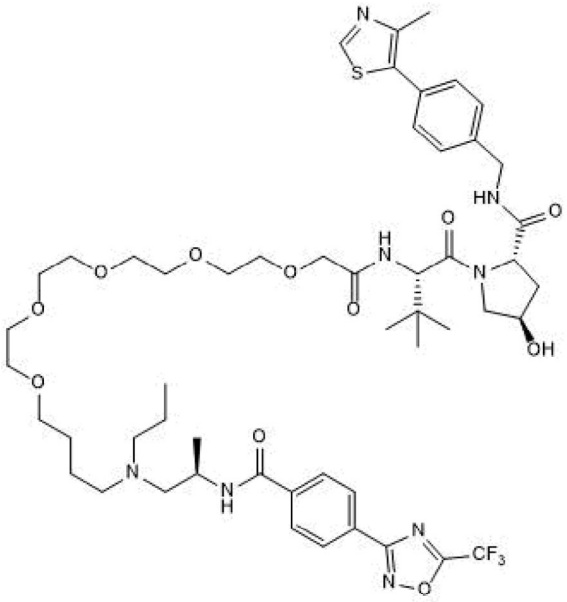
Batch Molecular Weight: 1075.26

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.09	6.84	10.42
Found	57.66	6.53	10.08

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Product Name: HDAC4 CHDI Degrader 11 **Catalog No.: 7882** **1**

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:

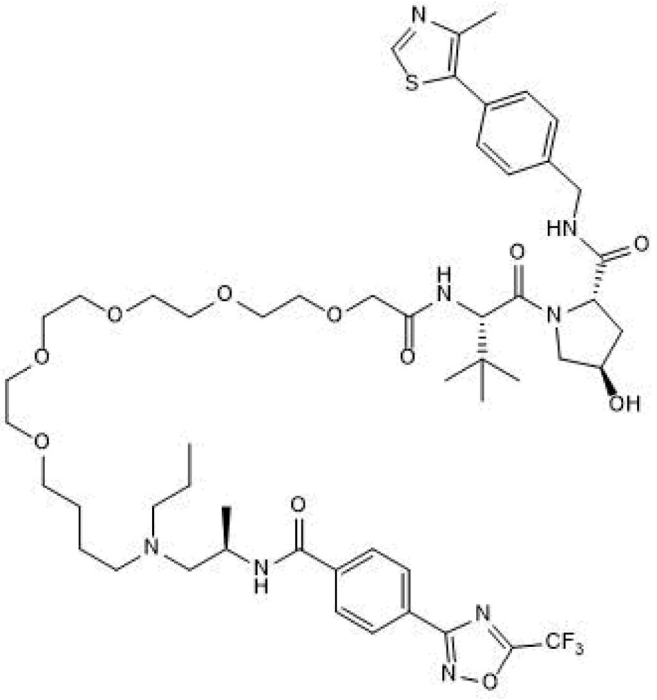
Batch Molecular Formula: $C_{52}H_{73}F_3N_8O_{11}S$

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

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