bio-techne
TOCRIS

Print Date: Mar 28th 2023

Certificate of Analysis

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Product Name: **VH 032 amide-PEG2-alkyne** **Catalog No.: 6684** **Batch No.: 1**

CAS Number: 2098799-80-3

IUPAC Name: (2*S*,4*R*)-1-((*S*)-2-(*tert*-Butyl)-4-oxo-6,9,12-trioxa-3-azapentadec-14-yn-1-oyl)-4-hydroxy-*N*-(4-(4-methylthiazol-5-yl) benzyl)pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

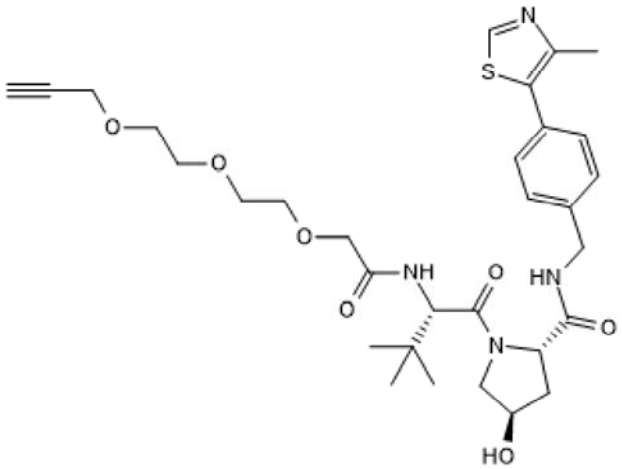
Batch Molecular Formula: $C_{31}H_{42}N_4O_7S.¼H_2O$

Batch Molecular Weight: 619.25

Physical Appearance: White solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Dichloromethane:Methanol [95:5])

HPLC: Shows 97.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.13	6.92	9.05
Found	59.95	6.87	9.16

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Description:

VH 032 amide-PEG2-alkyne is a functionalized von-Hippel-Lindau protein ligand (VHL) for PROTAC® research and development; incorporates an E3 ligase ligand plus PEG2 linker with terminal alkyne ready for conjugation to a target protein ligand. Part of a range of functionalized tool molecules for PROTAC R&D. This product has been recently renamed. The previous name for this product was VH 032 - linker 6 Please contact us for SD files of our available Degrader Building Blocks.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:

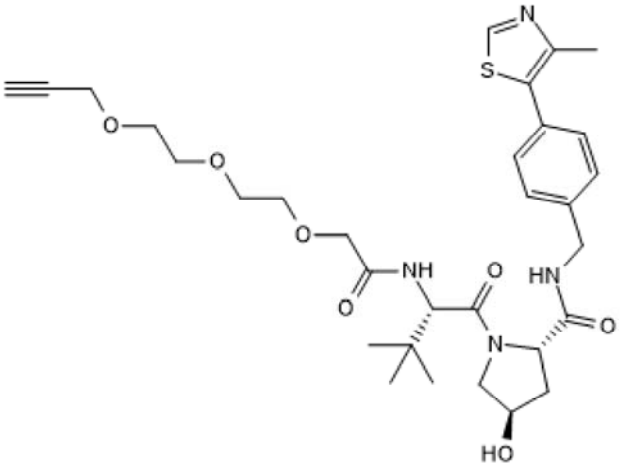
Batch Molecular Formula: $C_{31}H_{42}N_4O_7S.¼H_2O$

Batch Molecular Weight: 619.25

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

This compound is hygroscopic and may absorb atmospheric moisture during prolonged storage, causing the solid to become sticky and/or collapse into a gel or glass-like form. Although purity is unaffected, it may be difficult to extract the full quantity from the vial. In such a situation, we recommend that solutions are 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. Our standard recommendations are:

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:

Salami *et al* (2017) Waste disposal-An attractive strategy for cancer therapy. Science ***355*** 1163. PMID: 28302825.

Zengerle *et al* (2015) Selective small molecule induced degradation of the BET bromodomain protein BRD4. ACS Chem.Biol. ***10*** 1770. PMID: 26035625.