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Print Date: Aug 12th 2021

Certificate of Analysis

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Product Name: VH 298

Catalog No.: 6156 Batch No.: 2

CAS Number: 2097381-85-4

IUPAC Name:

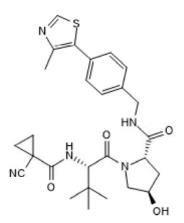
(2S,4R)-1-((S)-2-(1-cyanocyclopropanecarboxamido)-3,3-dimethylbutanoyl)-4-hydroxy-N-(4-(4-methylthiazol-5-yl) benzyl)pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₂₇H₃₃N₅O₄S.¼H₂O 528.15 White solid DMSO to 100 mM ethanol to 100 mM Store at -20°C

Storage:

Batch Molecular Structure:



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2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 100.0% purity							
Consistent with structure							
Consistent with structure							
Carbon Hydrogen Nitrogen							
61.4	6.39	13.26					
04.4	0.04	13.25					
	with stru with stru Carbon H 61.4	with structure with structure Carbon Hydrogen					

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

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Description:

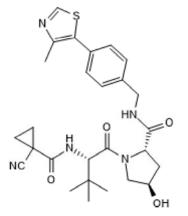
VH 298 is a high-affinity inhibitor of E3 ubiquitin ligase VHL (K_d = 80-90 nM). Blocks interaction between VHL and HIF-α downstream of HIF- α hydroxylation, initiating hypoxic response. Results in time- and concentration-dependent accumulation of hydroxylated HIF- α , and upregulates mRNA and protein levels of HIF target genes, with similar transcriptional profile to hypoxia. Cell permeable. Negative control cis VH 298 also available.

Physical and Chemical Properties:

Batch Molecular Formula: C27H33N5O4S.1/4H2O Batch Molecular Weight: 528.15 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM ethanol 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. 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.

Licensing Information:

Sold under licence from the University of Dundee

References:

Frost et al (2019) RNA-seg analysis of PHD and VHL inhibitors reveals differences and similarities to the hypoxia response. Wellcome Open Res. 4 17. PMID: 30801039.

Soares et al (2018) Group-based optimization of potent and cell-active inhibitors of the von Hippel-Lindau (VHL) E3 ubiguitin ligase: structure-activity relationships leading to the chemical probe (2S,4R)-1-((S)-2-(1-Cyanocyclopropanecarboxamido)-3. J.Med.Chem. 61 599. PMID: 28853884.

Frost *et al* (2015) Potent and selective chemical probe of hypoxic signalling downstream of HIF- α hydroxylation via VHL inhibition. Nat.Commun. 7 13312. PMID: 27811928.

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