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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

VH298

Item No. 21133

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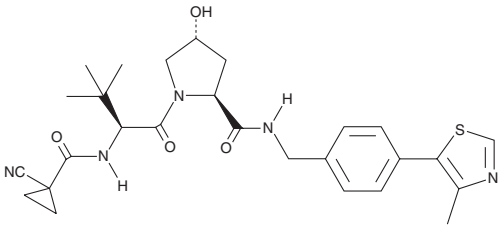
CAS Registry No.:	2097381-85-4
Formal Name:	(2S,4R)-1-((S)-2-(1-cyanocyclopropane-1-carboxamido)-3,3-dimethylbutanoyl)-4-hydroxy-N-(4-(4-methylthiazol-5-yl) benzyl)pyrrolidine-2-carboxamide
MF:	$C_{27}H_{33}N_5O_4S$
FW:	523.7
Purity:	≥98%
UV/Vis.:	λ_{max}: 271 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

VH298 is supplied as a crystalline solid. A stock solution may be made by dissolving the VH298 in the solvent of choice, which should be purged with an inert gas. VH298 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of VH298 in these solvents is approximately 30 mg/ml.

VH298 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, VH298 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. VH298 has a solubility of approximately 0.1 mg/ml in a 1:9 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

VH298 is a cell-permeant inhibitor of von Hippel-Lindau disease tumor suppressor (VHL; K_d = 90 nM by isothermal titration calorimetry).[1] VHL is a component of the complex that polyubiquitinates hydroxylated hypoxia-inducible factor-α (HIF-α) isoforms leading to proteasomal degradation. Through its effects on VHL, VH298 promotes the accumulation of HIF-α in a concentration- and time-dependent manner, resulting in the upregulation of HIF-target genes.[1]

Reference

1. Frost, J.M., Galdeano, C., Soares, P., *et al*. Potent and selective chemical probe of hypoxic signalling downstream of HIF-α hydroxylation *via* VHL inhibition. *Nat. Commun.* **7**, 13312 (2016).

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