LKT Laboratories, Inc.

VH298

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Product Information

Product ID V281020
CAS No. 2097381-85-4
Chemical Name

Synonym VH-298

Formula $C_{27}H_{33}N_5O_4S$
Formula Wt. 523.6
Melting Point
Purity ≥98%
Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
V281020	5 mg	$125.00
V281020	25 mg	$395.00
V281020	100 mg	$985.00

Store Temp -20˚C
Ship Temp Ambient

Description VH-298 is a potent, selective inhibitor of the VHL (Von Hippel-Lindau) E3 ubiquitin ligase that competitively blocks binding of the HIF-1α hydroxyproline degron, preventing VHL-mediated ubiquitination and degradation of HIF-α subunits. VH-298 stabilizes HIF-1α and HIF-2α, activating the hypoxia transcriptional program under normoxic conditions. It is used as both a pharmacological HIF stabilizer and as a VHL-recruiting warhead for PROTAC construction.

References

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2. Buckley DL, Van Molle I, Gareiss PC, et al. Targeting the von Hippel-Lindau E3 ubiquitin ligase using small molecules to disrupt the VHL/HIF-1α interaction. J Am Chem Soc. 2012;134(10):4465-8. PMID: 22369643.

3. Bondeson DP, Mares A, Smith IE, et al. Catalytic in vivo protein knockdown by small-molecule PROTACs. Nat Chem Biol. 2015;11(8):611-7. PMID: 26066762.

4. Kaelin WG Jr, Ratcliffe PJ. Oxygen sensing by metazoans: the central role of the HIF hydroxylase pathway. Mol Cell. 2008;30 (4):393-402. PMID: 18498744.

5. Ivan M, Bhatt DL, Bhatt DL, et al. HIFalpha targeted for VHL-mediated destruction by proline hydroxylation: implications for O2 sensing. Science. 2001;292(5516):464-8. PMID: 11292862.