LKT Laboratories, Inc.

UNC1999

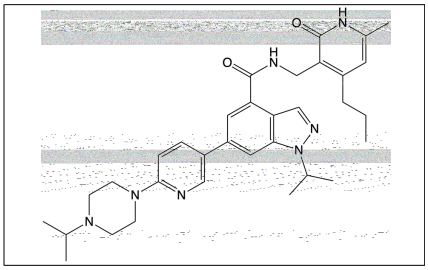
Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID U524081
CAS No. 1431612-23-5
Chemical Name

Synonym

Formula $C_{33}H_{43}N_7O_2$
Formula Wt. 569.7
Melting Point
Purity ≥98%
Solubility



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
U524081	5 mg	$125.00
U524081	25 mg	$350.00

Store Temp -20˚C
Ship Temp Ambient
Description UNC1999 is a potent, orally bioavailable inhibitor that selectively inhibits both EZH2 (enhancer of zeste homolog 2) and EZH1, the two catalytic subunits of the Polycomb Repressive Complex 2 (PRC2) responsible for tri-methylation of histone H3 at lysine 27 (H3K27me3). Unlike EZH2-selective inhibitors, UNC1999 dual inhibition provides more complete suppression of H3K27 methylation because EZH1 can compensate for EZH2 loss. UNC1999 is an important chemical probe for studying PRC2-mediated gene silencing, differentiation, and epigenetic dependencies in cancer.

References

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2. Morin RD, Johnson NA, Severson TM, et al. Somatic mutations altering EZH2 (Tyr641) in follicular and diffuse large B-cell lymphomas of germinal-center origin. Nat Genet. 2010;42(2):181-5. PMID: 20081860.

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5. Xu B, On DM, Ma A, et al. Selective inhibition of EZH2 and EZH1 enzymatic activity by a small molecule suppresses MLL-rearranged leukemia. Blood. 2015;125(2):346-57. PMID: 25395426.