LKT Laboratories, Inc.

dBET1

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Product Information

Product ID B184761
CAS No. 1799711-21-9
Chemical Name
Synonym
Formula $C_{38}H_{37}ClN_8O_7S$
Formula Wt. 785.3
Melting Point
Purity ≥98%
Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
B184761	1 mg	$55.00
B184761	5 mg	$185.00
B184761	25 mg	$525.00

Store Temp -20°C
Ship Temp Ambient

Description dBET1 is a bifunctional PROTAC (Proteolysis Targeting Chimera) that links JQ1, a BET bromodomain ligand, to a thalidomide-based CRBN (cereblon) E3 ligase recruiter. Upon cell entry, dBET1 simultaneously engages BET bromodomain proteins (BRD2, BRD3, BRD4) and CRBN, forming a ternary complex that drives polyubiquitination and proteasomal degradation of BET proteins within hours. dBET1 is a benchmark tool compound in targeted protein degradation research for studying BET protein biology and gene regulation.

References

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2. Filippakopoulos P, Qi J, Picaud S, et al. Selective inhibition of BET bromodomains. Nature. 2010;468(7327):1067-73. PMID: 20871596.

3. Cromm PM, Crews CM. Targeted Protein Degradation: from Chemical Biology to Drug Discovery. Cell Chem Biol. 2017;24 (9):1181-1190. PMID: 28938091.

4. Zengerle M, Chan KH, Ciulli A. Selective Small Molecule Induced Degradation of the BET Bromodomain Protein BRD4. ACS Chem Biol. 2015;10(8):1770-7. PMID: 26035625.

5. 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.