



LKT Laboratories, Inc.

I-BRD9

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Product Information

Product ID I062685

CAS No. 1714146-59-4

Chemical Name 5-Ethyl-4,5-dihydro-4-oxo-N-(tetrahydro-1,1-dioxido-2H-thiopyran-4-yl)-7-[3-(trifluoromethyl)phenyl]thieno[3,2-c]pyridine-2-carboximidamide

Synonym

Formula C₂₂H₂₂F₃N₃O₃S₂

Formula Wt. 497.6

Melting Point

Purity ≥98%

Solubility

Store Temp -20°C

Ship Temp Ambient

Description I-BRD9 is a potent and selective cell-permeable inhibitor of the BRD9 bromodomain, a component of the non-canonical BAF (ncBAF/GBAF) SWI/SNF chromatin remodeling complex. I-BRD9 competes with acetylated lysine for binding to the BRD9 bromodomain with high selectivity over other bromodomain family members. It is used to dissect the transcriptional and epigenetic functions of BRD9 in cancer, particularly in synovial sarcoma, malignant rhabdoid tumors, and other SWI/SNF-mutant cancers where BRD9 represents an oncological vulnerability.

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
I062685	5 mg	\$150.00
I062685	25 mg	\$475.00

- References**
1. Martin LJ, Koegl M, Bader G, et al. Structure-Based Design of an in Vivo Active Selective BRD9 Inhibitor. *J Med Chem.* 2016;59(10):4462-75. PMID: 27109867.
 2. Hohmann AF, Martin LJ, Minder JL, et al. Sensitivity and engineered resistance of myeloid leukemia cells to BRD9 inhibition. *Nat Chem Biol.* 2016;12(9):672-9. PMID: 27376689.
 3. Gatchalian J, Malik S, Ho J, et al. A non-canonical BRD9-containing BAF chromatin remodeling complex regulates naive pluripotency in mouse embryonic stem cells. *Nat Commun.* 2018;9(1):5139. PMID: 30510203.
 4. Wang X, Wang S, Troisi EC, et al. BRD9 defines a SWI/SNF sub-complex and constitutes a specific vulnerability in malignant rhabdoid tumors. *Nat Commun.* 2019;10(1):1881. PMID: 31015399.
 5. Filippakopoulos P, Picaud S, Mangos M, et al. Histone recognition and large-scale structural analysis of the human bromodomain family. *Cell.* 2012;149(1):214-31. PMID: 22464331.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.