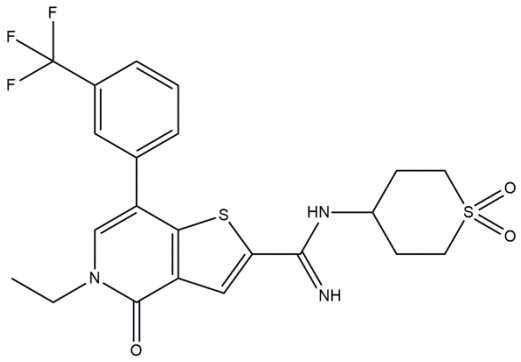
I-BRD9

08/19

ALTERNATE NAMES: N'-(1,1-dioxothian-4-yl)-5-ethyl-4-oxo-7-[3-(trifluoromethyl)phenyl]thieno[3,2-c]pyridine-2-carboximidamide; N'-[1,1-Bis(Oxidanylidene)thian-4-Yl]-5-Ethyl-4-Oxidanylidene-7-[3-(Trifluoromethyl)phenyl]thieno[3,2-C]pyridine-2-Carboximidamide; N-(1,1-dioxidotetrahydro-2H-thiopyran-4-yl)-5-ethyl-4-oxo-7-(3-(trifluoromethyl)phenyl)-4,5-dihydrothieno[3,2-c]pyridine-2-carboximidamide; 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; N-(1,1-dioxo-1lambda6-thian-4-yl)-5-ethyl-4-oxo-7-[3-(trifluoromethyl)phenyl]-4H,5H-thieno[3,2-c]pyridine-2-carboximidamide; GSK602

CATALOG #:
B2857-5 5 mg
B2857-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{22}H_{22}F_3N_3O_3S_2$

MOLECULAR WEIGHT: 497.55

CAS NUMBER: 1714146-59-4

APPEARANCE: A crystalline solid

PURITY: ≥98%

SOLUBILITY:
~30 mg/ml in DMF
~25 mg/ml in DMSO

DESCRIPTION: I-BRD9 is an inhibitor and chemical probe for BRD9 bromodomain. BRD9 (bromodomain-containing protein 9) is a part of the chromatin remodeling SWI/SNF BAF complex. Bromodomain "reader" modules recognize the acetylation of histone lysine residues. I-BRD9 has a pIC_{50} of 7.3 and displays >700-fold selectivity over the BET (bromodomains and extra-terminal) family and >70-fold against a panel of 34 bromodomains.

STORAGE TEMPERATURE: -20ºC

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Theodoulou, N.H., Bamborough, P., Bannister, A.J., et al. Discovery of I-BRD9, a selective cell active chemical probe for bromodomain containing protein 9 inhibition. Journal of Medicinal Chemistry (2015).

RELATED PRODUCTS:

LP99 (Cat. No. B2853)
BAZ2-ICR (Cat. No. B1865)
EZSolution™ Bromosporine, Sterile-filtered (Cat. No. B2255)
Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070)
NI-57 (Cat. No. B2854)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***