

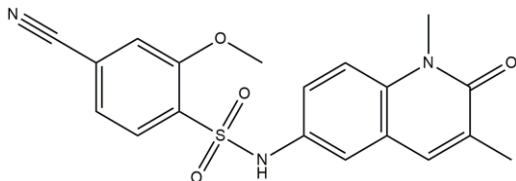
NI-57

08/19

ALTERNATE NAMES: 4-cyano-N-(1,3-dimethyl-2-oxoquinolin-6-yl)-2-methoxybenzenesulfonamide; 4-cyano-N-(1,2-dihydro-1,3-dimethyl-2-oxo-6-quinolinyl)-2-methoxy-benzenesulfonamide; 4-Cyano--(n)-(1,3-Dimethyl-2-Oxidanylidene-Quinolin-6-Yl)-2-Methoxy-Benzenesulfonamide

CATALOG #: B2854-1 1 mg
B2854-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₉H₁₇N₃O₄S

MOLECULAR WEIGHT: 383.42

CAS NUMBER: 1883548-89-7

APPEARANCE: A crystalline solid

PURITY: ≥98%

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

DESCRIPTION: NI-57 is an inhibitor of the bromodomains of BRPF proteins. The bromodomain and plant homeodomain finger-containing (BRPF) family are scaffolding proteins important for the recruitment and activation of MOZ/MORF histone acetyltransferases to chromatin. NI-57 binds to BRPF1B, BRPF2 and BRPF3 with K_d values of 31 nM, 108 nM and 408 nM respectively. It inhibits BRPF1 with an IC₅₀ of 114 nM. It shows functional activity in cellular assays by modulating the phenotype at low micromolar concentrations in cancer and inflammatory models.

STORAGE TEMPERATURE: -20°C

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

REFERENCES:

1. Igoe, N., Bayle, E.D., Tallant, C., et al. Design of a chemical probe for the bromodomain and plant homeodomain finger-containing (BRPF) family of proteins. *J. Med. Chem.* 60(16), 6998 (2017).
2. Ullah, M., Pelletier, N., Xiao, L., et al. Molecular architecture of quartet MOZ/MORF histone acetyltransferase complexes. *Mol. Cell Biol.* 28(22), 6828-6843 (2008).

RELATED PRODUCTS:

AZD-5153 (Cat. No. B2020)
 EZSolution™ Bromosporine, Sterile-filtered (Cat. No. B2255)
 LP99 (Cat. No. B2853)
 BAZ2-ICR (Cat. No. B1865)
 Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070)

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