

Product Name : NI-42

Synonyms : NI42;NI 42;BRPF1 inhibitor NI-42

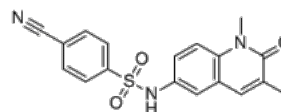
Cat No. : M12945

CAS Number : 1884640-99-6

Molecular Formula : C₁₈H₁₅N₃O₃S

Formula Weight : 353.40

Chemical Name : 4-Cyano-N-(1,3-dimethyl-2-oxo-1,2-dihydroquinolin-6-yl)-benzenesulfonamide



Description : A potent, selective and orally active BRPF1 bromodomain inhibitor with IC₅₀ of 7.9 nM, with excellent selectivity over nonclass IV BRDs; weakly inhibits BRPF2 (BRD1), BRPF3, BRD9 and BRD4 (BD1) with IC₅₀ of 48, 260, 310 and 4500 nM respectively, and no activity for ATAD2A/2B (IC₅₀>100 uM); shows a modest (GI₅₀=1-10 uM) and selective inhibition of proliferation of certain cancer lines, particularly those lines exhibiting monocytic lineage differentiation; a novel, structurally orthogonal chemical probe for the BRPFs suitable for cellular and in vivo studies.

Pathway : Chromatin/Epigenetic

Target : Bromodomain

Receptor : Bromodomain

Solubility : —

SMILES : O=S(C1=CC=C(C#N)C=C1)(NC2=CC(C=C(C)C(N3C)=O)=C3C=C2)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Igoe N, et al. J Med Chem. 2017 Jan 26;60(2):668-680.