

Product Name : BET inhibitor CF53

Synonyms : —

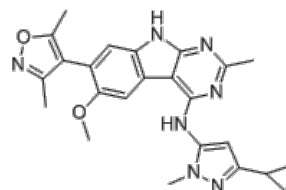
Cat No. : M12767

CAS Number : 1808160-52-2

Molecular Formula : C₂₄H₂₅N₇O₂

Formula Weight : 443.51

Chemical Name : N-(3-Cyclopropyl-1-methyl-1H-pyrazol-5-yl)-7-(3,5-dimethylisoxazol-4-yl)-6-methoxy-2-methyl-9H-pyrimido[4,5-b]indol-4-amine



Description : BET inhibitor CF53 is a highly potent, orally active inhibitor of bromodomain and extra-terminal (BET) with K_i of <1 nM (BRD4 BD1); potently inhibits different BET proteins with K_d values of 0.5-2.2 nM, weakly inhibits CREBBP (K_i=47 nM) and shows excellent selectivity over other bromodomain containing proteins; inhibits cell growth in MOLM-13 and MDA-MB-231 cell lines with IC₅₀ of 7 and 85 nM, respectively; CF53 demonstrates significant antitumor activity in both triple-negative breast cancer and acute leukemia xenograft models in mice.

Pathway : Chromatin/Epigenetic

Target : Bromodomain

Receptor : Bromodomain

Solubility : DMSO : 110 mg/mL 248.03 mM

SMILES : CC1=C(C(=NO1)C)C2=C(C=C3C(=C2)NC4=C3C(=NC(=N4)C)NC5=CC(=NN5C)C6CC6)OC

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Zhao Y, et al. J Med Chem. 2018 Jul 17. doi: 10.1021/acs.jmedchem.8b00483.