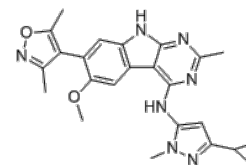


Product Name : BET inhibitor CF53
Cat. No. : PC-35401
CAS No. : 1808160-52-2
Molecular Formula : C₂₄H₂₅N₇O₂
Molecular Weight : 443.511
Target : Bromodomain
Solubility : 10 mM in DMSO



Biological Activity

BET inhibitor CF53 is a highly potent, orally active inhibitor of bromodomain and extra-terminal (BET) with K_i of <1 nM (**BRD4 BD1**).

BET inhibitor CF53 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.

BET inhibitor CF53 inhibits cell growth in MOLM-13 and MDA-MB-231 cell lines with IC_{50} of 7 and 85 nM, respectively.

CF53 demonstrates significant antitumor activity in both triple-negative breast cancer and acute leukemia xenograft models in mice.

References

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

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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