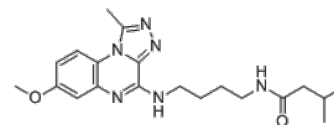


Product Name : DW71177
Cat. No. : PC-21651
CAS No. : 2241311-72-6
Molecular Formula : C₂₀H₂₈N₆O₂
Molecular Weight : 384.48
Target : Bromodomain
Solubility : 10 mM in DMSO



CAS: 2241311-72-6

Biological Activity

DW71177 (DW-71177) is a potent and BD1-selective **BET** inhibitor with ITC KD of 6.7 nM (BRD4-BD1), 20-fold selective over BRD4-BD2, exhibits strong antileukemic activity.

DW71177 exhibits KD values of 5.5-13.6 nM for BD1s and 86-163 nM for BD2s in the isothermal titration calorimetry (ITC) experiments.

DW71177 specifically targets BET bromodomains in bromodomain-selectivity profiling.

DW71177 exhibits strong growth inhibition (GI₅₀ <0.1 μM) for NUT midline carcinoma cell line (Ty-82), AML cell lines (MV4-11 and THP-1), and B-cell lymphoma cell lines (Pfeiffer and SU-DHL-4).

DW71177 induces the accumulation of MV4-11 cells in the sub-G1 phase and increases the apoptotic cell population

DW71177 (120 mg/kg) exhibits antitumor activity in an acute myeloid leukemia (AML) xenograft model.

References

Imran Ali, et al. *Eur J Med Chem.* 2023 Dec 16:265:116052.

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

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