GXF-111

BIOLOGICAL ACTIVITY

Cat. No.:HY-153414Molecular Formula: $C_{42}H_{42}ClN_7O_3$ Molecular Weight:728.28Target:Epigenetic Reader Domain; PROTACsPathway:Epigenetics; PROTACStorage:Please store the product under the recommended conditions in the Certificate of

Description GXF-111, a PROTAC molecule, can promote selective degradation of cellular BRD3 and BRD4-L. GXF-111 has binding affinities for BRD3 BD1 and BRD3 BD2 with K_i values of 11.97 nM and 2.35 nM, respectively. GXF-111 can be used for the research of cancer^[1]. IC₅₀ & Target Ki: 11.97 nM (BRD3 BD1); 2.35 nM (BRD3 BD2) [1]. IC50: 6.31 nM (MV4-11 cell); 95.2 nM (MM.1 S cell) ^[1]. In Vitro GXF-111 (Compound 24) has binding affinities for BRD3 BD1 and BRD3 BD2 with K_i values of 11.97 nM and 2.35 nM, respectively^[1]. GXF-111 has cellular activities in MV4-11 and MM.1 S cell lines with IC₅₀ values of 6.31 nM and 95.2 nM, respectively^[1]. GXF-111 (2, 10 nM; 24 h) has potent cell growth inhibition activities for degradation of BET family proteins in MM.1 S cells^[1]. GXF-111 (4 days) has anti-proliferative activity in 7 human cancer cell lines with IC₅₀ values range from 6.31 nM to 17.25 μ M^[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1] Cell Line: MM.1 S cells⊠MM.1 S, HGC-27, and MCF-7 cells⊠Multiple cancer cell lines Concentration: 2, 10 nM; 0.1, 0.3, 1, 3 nM; 30 nM; 3, 10, 30, 100, 300 nM Incubation Time: 24 h; 8 h; 1, 3, 6, 8, 24 h; 24 h Result: Efficiently depleted BRD3 and BRD4-L in MM.1 S cells at 2 nM.

MM.1S, MCF-7, and HGC-27 cells.

MM.1 S cell

1, 3, 10, 30, 100, 300 nM

HGC27, MCF-7, A549, Hela, and HepG2 cells.

Dose-dependently depleted BRD3 and BRD4-L and partially depleted BRD2 at 10 nM. Had good degradation kinetics of BET proteins in three selected cancer cell lines, i.e.

Only BRD3 and BRD4-L, were depleted dose-dependently in five cancer cell lines, i.e.

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Cell Cycle Analysis^[1]

Cell Line:

Concentration:



Incubation Time:	24 h
Result:	Dose-dependently induced cell cycle arrest at G1 phase.

REFERENCES

[1]. Yan Z, et al. Selective degradation of cellular BRD3 and BRD4-L promoted by PROTAC molecules in six cancer cell lines. Eur J Med Chem. 2023;254:115381.

Caution: Product has not been fully validated for medical applications. For research use only.

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