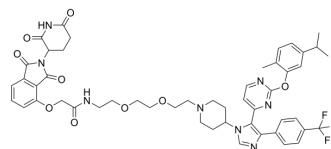


dBRD4-BD1

Cat. No.:	HY-151593
CAS No.:	2839318-19-1
Molecular Formula:	C ₅₀ H ₅₃ F ₃ N ₈ O ₉
Molecular Weight:	967
Target:	Epigenetic Reader Domain; PROTACs
Pathway:	Epigenetics; PROTAC
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	dBRD4-BD1 is a selective and durable BRD4 degrader with an DC ₅₀ value of 280 nM (D _{max} =77%). dBRD4-BD1 upregulates BRD2/3 protein level and shows low cytotoxicity than iBRD4-BD1 ^[1] .																
In Vitro	<p>dBRD4-BD1 (64 pM-25 nM; 24 h) degrades BDR4 in a dose-dependent manner^[1].</p> <p>dBRD4-BD1 (5 μM; 0-72 h) increases the protein level of BRD2 and BRD3^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MM.1S cells</td> </tr> <tr> <td>Concentration:</td> <td>25, 5, 1, 0.2, 0.04, 0.008, 0.0016 nM and 320 pM, 64 pM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Degraded BDR4 in a dose-dependent manner.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MM.1S cells</td> </tr> <tr> <td>Concentration:</td> <td>5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>0, 0.5, 1, 2, 4, 8, 12, 24, 30, 36, 48, 72 hours</td> </tr> <tr> <td>Result:</td> <td>Increased the protein amount of BRD2 and BRD3 without decreasing cMyc protein level in 4 hr period.</td> </tr> </table>	Cell Line:	MM.1S cells	Concentration:	25, 5, 1, 0.2, 0.04, 0.008, 0.0016 nM and 320 pM, 64 pM	Incubation Time:	24 hours	Result:	Degraded BDR4 in a dose-dependent manner.	Cell Line:	MM.1S cells	Concentration:	5 μM	Incubation Time:	0, 0.5, 1, 2, 4, 8, 12, 24, 30, 36, 48, 72 hours	Result:	Increased the protein amount of BRD2 and BRD3 without decreasing cMyc protein level in 4 hr period.
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REFERENCES

[1]. Divakaran A, et al. Development of an N-Terminal BRD4 Bromodomain-Targeted Degradator. ACS Med Chem Lett. 2022 Sep 29;13(10):1621-1627.

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

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