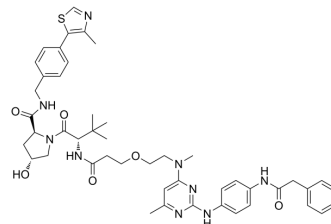


PROTAC TG2 degrader-2

Cat. No.:	HY-155102
Molecular Formula:	C ₄₇ H ₅₇ N ₉ O ₆ S
Molecular Weight:	876.08
Target:	Glutaminase; PROTACs
Pathway:	Metabolic Enzyme/Protease; PROTAC
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PROTAC TG2 degrader-2 (compound 7) is a selective, competitive degrader targeting Transglutaminase 2 (TG2), with $K_d > 100 \mu\text{M}$. PROTAC TG2 degrader-2 inhibits the cell migration and decreases the level of TG2 in ovarian cancer cells. PROTAC TG2 degrader-2 can be used for ovarian cancer study ^[1] .																
IC₅₀ & Target	> 100 μM (TG2)																
In Vitro	<p>PROTAC TG2 degrader-2 (Compound 7) (10 μM, up to 24h) inhibits the migration of OVCAR5 and SKOV3 cell lines in both wound-healing assays and transwell migration assays^[1].</p> <p>PROTAC TG2 degrader-2 (10 μM) reduces the adhesion of OVCAR5 and SKOV3 cells to fibronectin^[1].</p> <p>PROTAC TG2 degrader-2 (up to 10 μM, 6 h) reduces the level of Transglutaminase 2(TG2) within 6 h in a concentration-dependent manner in both OVCAR5 and SKOV3 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Migration Assay ^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>OVCAR5 and SKOV3 cells</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>Wound-healing assay: 24 h (OVCAR5 cells) and 12 h (OVCAR5 cells) (SKOV3 cells)</td> </tr> <tr> <td>Result:</td> <td>Inhibited the migration.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>OVCAR5 and SKOV3 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1, 1 and 10 μM (OVCAR5 cells), 1 and 10 μM (OVCAR5 cells) (SKOV3 cells)</td> </tr> <tr> <td>Incubation Time:</td> <td>6 h and 24 h</td> </tr> <tr> <td>Result:</td> <td>Reduced the level of TG2.</td> </tr> </table>	Cell Line:	OVCAR5 and SKOV3 cells	Concentration:	10 μM	Incubation Time:	Wound-healing assay: 24 h (OVCAR5 cells) and 12 h (OVCAR5 cells) (SKOV3 cells)	Result:	Inhibited the migration.	Cell Line:	OVCAR5 and SKOV3 cells	Concentration:	0.1, 1 and 10 μM (OVCAR5 cells), 1 and 10 μM (OVCAR5 cells) (SKOV3 cells)	Incubation Time:	6 h and 24 h	Result:	Reduced the level of TG2.
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REFERENCES

[1]. Valdivia A, et al. Discovery and Characterization of PROTACs Targeting Tissue Transglutaminase (TG2). J Med Chem. 2023;66(14):9445-9465. doi:10.1021/acs.jmedchem.2c01859
Valdivia A, Vagadia PP, Guo G, O'Brien E, Matei D, Schiltz GE. Discovery and Characterization of PROTACs Targeting Tissue Transglutaminase (TG2). J Med Chem. 2023;66(14):9445-9465. doi:10.1021/acs.jmedchem.2c01859

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

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