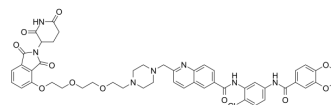


CCT367766

Cat. No.:	HY-122653
CAS No.:	2229856-58-8
Molecular Formula:	C ₄₉ H ₄₈ ClN ₇ O ₁₁
Molecular Weight:	946.4
Target:	PROTACs
Pathway:	PROTAC
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CCT367766 is a potent and the third generation heterobifunctional and Cereblon-based pirin targeting protein degradation probe (PDP, or PROTAC), depletes pirin protein expression at low concentration. CCT367766 exhibits a moderate affinity for the CRBN-DDB1 complex with an IC ₅₀ value of 490 nM. CCT367766 reveals a good affinity for the recombinant pirin and CRBN with K _d values of 55 nM and 120 nM, respectively. CCT367766 provides a potential chemical tool to study a largely unexplored protein ^[1] .																
IC₅₀ & Target	CRBN-DDB1 490 nM (IC ₅₀)																
In Vitro	<p>CCT367766 (50-1500 nM; 24 hours) demonstrates the depletion of pirin protein as a the time-dependent hook-effect in SK-OV-3 human ovarian cancer cells^[1].</p> <p>CCT367766 (0.5-50 nM; 2 hours) demonstrates the concentration-dependent depletion of pirin protein after 2 h exposure in SK-OV-3 cells^[1].</p> <p>CCT367766 (0.5-50 nM; 2 hours) dose-dependently rescues pirin expression from pretreatment of chlorobisamide in SK-OV-3 cells^[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>SK-OV-3 human ovarian cancer cells</td> </tr> <tr> <td>Concentration:</td> <td>50, 150, 250, 500 and 1500 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 hours, 4 hours, 24 hours</td> </tr> <tr> <td>Result:</td> <td>Decreased pirin protein expression.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SK-OV-3 human ovarian cancer cells</td> </tr> <tr> <td>Concentration:</td> <td>0.5, 1, 2.5, 5, 7.5, 10, 25, and 50 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 hours</td> </tr> <tr> <td>Result:</td> <td>Completely degraded pirin just at 50 nM treatment.</td> </tr> </table>	Cell Line:	SK-OV-3 human ovarian cancer cells	Concentration:	50, 150, 250, 500 and 1500 nM	Incubation Time:	2 hours, 4 hours, 24 hours	Result:	Decreased pirin protein expression.	Cell Line:	SK-OV-3 human ovarian cancer cells	Concentration:	0.5, 1, 2.5, 5, 7.5, 10, 25, and 50 nM	Incubation Time:	2 hours	Result:	Completely degraded pirin just at 50 nM treatment.
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REFERENCES

[1]. Chessum NEA, et al. Demonstrating In-Cell Target Engagement Using a Pirin Protein Degradation Probe (CCT367766). J Med Chem. 2018 Feb 8;61(3):918-933.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA