# MDM2/XIAP-IN-1

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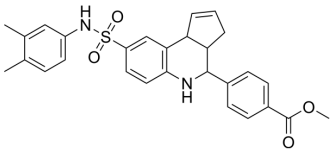
| **Cat. No.:** | HY-153199 |
| **CAS No.:** | 359595-95-2 |
| **Molecular Formula:** | $C_{28}H_{28}N_2O_4S$ |
| **Molecular Weight:** | 488.6 |
| **Target:** | Others |
| **Pathway:** | Others |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

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| **Description** | MDM2/XIAP-IN-1 (compound 14) is an orally active inhibitor of dual MDM2/XIAP. MDM2/XIAP-IN-1 has anti-cancer activity with an $IC_{50}$ value of 0.3 μM, which can be used in cance rescrch[1]. |
| **$IC_{50}$ & Target** | IC50:0.3 μM (EU-1 cell)[1] |
| **In Vitro** | MDM2/XIAP-IN-1 (0-4 μM, 48 h) inhibts the cell viability on two ALL cell lines (EU-1 and EU-3) and three NB cell lines (NB-1643, SHEP1, and LA1-55N)[1].<br>MDM2/XIAP-IN-1 degrades MDM2 and XIAP, killing tumor cells targeting, but not toxic to normal cells[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

Clonogenic Assay

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| Cell Line: | NB and normal human hematopoietic cells[1] |
| Concentration: | 0-4 μM |
| Incubation Time: | 2 weeks |
| Result: | Inhibited tumor cell growth, non-toxic to normal human hematopoietic cells. |

Western Blot Analysis

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| Cell Line: | EU-1 cell[1] |
| Concentration: | 0-2 μM |
| Incubation Time: | 0-24 h |
| Result: | Caused the MDM2 and XIAP degradation as well as inducted p53 expression. |

**In Vivo**

MDM2/XIAP-IN-1 Pharmacokinetic Analysis in Male SD rats Model[1]

[1]

| Route | Dose (mg/kg) | $AUC_{last}$ (ng·h/mL) | $t_{1/2}$ (h) | $Cl_{obs}$ (L·h/kg) | F (%) |
|---|---|---|---|---|---|
| i.v. | 10 | 4750 | 0.94 | 2.12 | / |
| p.o. | 25 | 0.71 | / | / | 5.9% |

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Zhongzhi Wu, et al. Discovery of N-(3,4-Dimethylphenyl)-4-(4-isobutyrylphenyl)-2,3,3a,4,5,9b-hexahydrofuro[3,2-c]quinoline-8-sulfonamide as a Potent Dual MDM2/XIAP Inhibitor. Med. Chem. 2021, 64, 4.



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