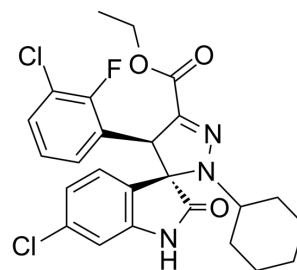


MDM2/4-p53-IN-3

Cat. No.:	HY-151171
Molecular Formula:	C ₂₅ H ₂₄ Cl ₂ FN ₃ O ₃
Molecular Weight:	504.38
Target:	MDM-2/p53
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



Relative stereochemistry

BIOLOGICAL ACTIVITY

Description	MDM2/4-p53-IN-3 is a MDM2/4-p53 protein-protein interactions (PPIs) inhibitor (IC ₅₀ : 18.5 nM for MDM2-p53, 14.8 nM for MDM4-p53). MDM2/4-p53-IN-3 can be used in the research of cancers, such as colon cancer ^[1] .								
IC₅₀ & Target	MDM2/4-p53 protein-protein interactions (PPIs) ^[1]								
In Vitro	<p>MDM2/4-p53-IN-3 (Compound 2a, 1-100 μM, 48 h) inhibits cell proliferation^[1].</p> <p>MDM2/4-p53-IN-3 dissociates p53-MDMs complexes (immunoenzymatic assays) with IC₅₀ values of 18.5 nM (MDM2-p53) and 14.8 nM (MDM4-p53)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HCT116, SJSA-1, LNCaP, MCF-7</td> </tr> <tr> <td>Concentration:</td> <td>1-100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h (HCT116), 72 h (MCF-7), 96 h (SJSA-1, LNCaP)</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell proliferation with IC₅₀ values of 23.6 μM (HCT116), 12.6 μM (SJSA-1), 13.1 μM (LNCaP), 14.3 μM (MCF-7).</td> </tr> </table>	Cell Line:	HCT116, SJSA-1, LNCaP, MCF-7	Concentration:	1-100 μM	Incubation Time:	48 h (HCT116), 72 h (MCF-7), 96 h (SJSA-1, LNCaP)	Result:	Inhibited cell proliferation with IC ₅₀ values of 23.6 μM (HCT116), 12.6 μM (SJSA-1), 13.1 μM (LNCaP), 14.3 μM (MCF-7).
Cell Line:	HCT116, SJSA-1, LNCaP, MCF-7								
Concentration:	1-100 μM								
Incubation Time:	48 h (HCT116), 72 h (MCF-7), 96 h (SJSA-1, LNCaP)								
Result:	Inhibited cell proliferation with IC ₅₀ values of 23.6 μM (HCT116), 12.6 μM (SJSA-1), 13.1 μM (LNCaP), 14.3 μM (MCF-7).								

REFERENCES

[1]. Margarida Espadinha, et al. Discovery of MDM2-p53 and MDM4-p53 protein-protein interactions small molecule dual inhibitors. *Eur J Med Chem.* 2022 Aug 5;241:114637.

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