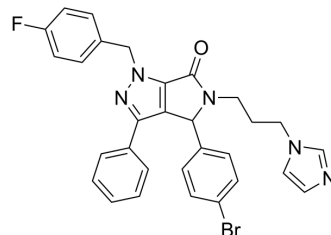


## p53-MDM2-IN-3

Cat. No.:	HY-121893
CAS No.:	1542066-74-9
Molecular Formula:	C <sub>30</sub> H <sub>25</sub> BrFN <sub>5</sub> O
Molecular Weight:	570.45
Target:	MDM-2/p53; NF-κB
Pathway:	Apoptosis; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	p53-MDM2-IN-3 (Compound 5s) is an orally active p53-MDM2 inhibitor with a K <sub>i</sub> value of 0.25 μM. p53-MDM2-IN-3 exerts antitumor activity by inhibiting NF-κB pathway <sup>[1]</sup> .								
<b>In Vitro</b>	<p>p53-MDM2-IN-3 (0.1-20 μM, 4 h) dose-dependent increases p65 levels in A549 cytoplasm and nucleus<sup>[1]</sup>.</p> <p>p53-MDM2-IN-3 (0.1-10 μM, 4 h) selectively activates p53 or inhibits the NF-κB pathway in A549 cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549</td> </tr> <tr> <td>Concentration:</td> <td>0.1, 1, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>4 h</td> </tr> <tr> <td>Result:</td> <td>Activated the phosphorylation of IKKβ only or both IKKβ and IKKα in a dose-dependent manner.</td> </tr> </table>	Cell Line:	A549	Concentration:	0.1, 1, 10 μM	Incubation Time:	4 h	Result:	Activated the phosphorylation of IKKβ only or both IKKβ and IKKα in a dose-dependent manner.
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Concentration:	0.1, 1, 10 μM								
Incubation Time:	4 h								
Result:	Activated the phosphorylation of IKKβ only or both IKKβ and IKKα in a dose-dependent manner.								
<b>In Vivo</b>	p53-MDM2-IN-3 (200 mg/kg, gavage for 14 days) effectively inhibits tumor growth in A549 xenotransplantation model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								

### REFERENCES

[1]. Zhuang C, et al. Double-edged swords as cancer therapeutics: novel, orally active, small molecules simultaneously inhibit p53-MDM2 interaction and the NF-κB pathway. *J Med Chem.* 2014 Feb 13;57(3):567-77.

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

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