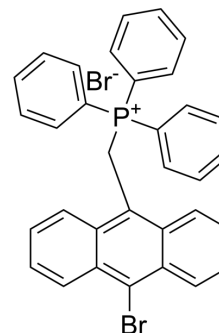


## MDM2-IN-24

Cat. No.:	HY-163275
Molecular Formula:	C <sub>33</sub> H <sub>25</sub> Br <sub>2</sub> P
Molecular Weight:	612.33
Target:	MDM-2/p53; Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	MDM2-IN-24 (compound A3f) exhibits MDM2-inhibiting and MDMX-activating properties in triple-negative breast cancer (TNBC) cells, with apoptotic and anti-proliferative activities <sup>[1]</sup> .																
<b>In Vitro</b>	<p>MDM2-IN-24 is a G-quadruplex ligand, which binds with G-rich sequences of MDM2 and MDMX with K<sub>d</sub>s of 4.9 and 5.2 μM, respectively<sup>[1]</sup>.</p> <p>MDM2-IN-24 (6 μM) inhibits MDM2 and thereby induces proliferation and apoptosis in TNBC cells<sup>[1]</sup>.</p> <p>MDM2-IN-24 (6 μM) exhibits cytotoxicity in HCC1937 cells (survival rate is 27.7%)<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Real Time qPCR<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HCC1937</td> </tr> <tr> <td>Concentration:</td> <td>3 μM</td> </tr> <tr> <td>Incubation Time:</td> <td></td> </tr> <tr> <td>Result:</td> <td>Decreased mRNA levels of MDM2 and increased mRNA levels of MDMX.</td> </tr> </table> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HCC1937</td> </tr> <tr> <td>Concentration:</td> <td>0-6 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Decreased MDM2 expression, increased levels of MDMX and cleaved caspase-3 in normal HCC1937. Reactivated cleaved caspase-3 in HCC1937 cells with siMDMX.</td> </tr> </table>	Cell Line:	HCC1937	Concentration:	3 μM	Incubation Time:		Result:	Decreased mRNA levels of MDM2 and increased mRNA levels of MDMX.	Cell Line:	HCC1937	Concentration:	0-6 μM	Incubation Time:	24 h	Result:	Decreased MDM2 expression, increased levels of MDMX and cleaved caspase-3 in normal HCC1937. Reactivated cleaved caspase-3 in HCC1937 cells with siMDMX.
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### REFERENCES

[1]. Feng Y, et al., Targeting G-rich sequence to regulate the transcription of murine double minute (MDM) genes in triple-negative breast cancers. Eur J Med Chem. 2024 Jan

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

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