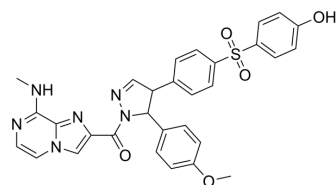


## NF-κB-IN-12

<b>Cat. No.:</b>	HY-149580
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>26</sub> N <sub>6</sub> O <sub>5</sub> S
<b>Molecular Weight:</b>	582.63
<b>Target:</b>	NF-κB
<b>Pathway:</b>	NF-κB
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	NF-κB-IN-12 (compound 3h) is a potent NF-κB inhibitor, with an IC <sub>50</sub> of 1.02 μM. NF-κB-IN-12 can be used for acute lung injury research <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 1.02 ± 0.29 μM (NF-κB) <sup>[1]</sup>
<b>In Vitro</b>	NF-κB-IN-12 (compound 3h) is non-toxic to MCF-12A cells (normal epithelial cells) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	NF-κB-IN-12 (compound 3h) (5-10 mg/kg, IP, daily) shows a protective effect in SD rats against sepsis induced by the CLP (cecal ligation puncture) method <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>Animal Model:</b>	Sprague-Dawley (SD) rats (male, 7-9 weeks old, weighing 210-260 g) <sup>[1]</sup>
<b>Dosage:</b>	5, 10 mg/kg
<b>Administration:</b>	IP, daily for 3 days before CLP surgery and on the 4th day 1 h before CLP
<b>Result:</b>	Significantly upregulated SOD and GSH. Improved the antioxidant status of experimental rats. Reduced the elevated level of nuclear NF-κB. Caused a significant reduction in lung edema and total proteins, mononuclear leukocytes, and polymorphonuclear leukocytes in BALF (bronchoalveolar lavage fluid).

### REFERENCES

[1]. Zang B, et al. Synthesis and protective effect of pyrazole conjugated imidazo[1,2-a]pyrazine derivatives against acute lung injury in sepsis rats via attenuation of NF-κB, oxidative stress, and apoptosis. *Acta Pharm.* 2023 Sep 14;73(3):341-362.

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

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