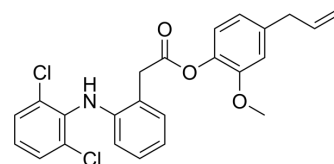


## Anti-inflammatory agent 48

Cat. No.:	HY-155646
Molecular Formula:	C <sub>24</sub> H <sub>21</sub> Cl <sub>2</sub> NO <sub>3</sub>
Molecular Weight:	442.33
Target:	NF-κB
Pathway:	NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Anti-inflammatory agent 48 is an anti-inflammatory agent based on its role in inhibiting the NF-κB signaling pathway and activating HO-1 expression <sup>[1]</sup> .
<b>In Vitro</b>	Anti-inflammatory agent 48 (compound 1) shows NO-inhibitory ability in LPS-induced RAW 264.7 macrophage cells. Anti-inflammatory agent 48 exhibits superior NF-κB-inhibitory ability compared to Diclofenac through the activation of Nrf2/HO-1 signaling pathway in RAW 264.7 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Anti-inflammatory agent 48 (compound 1; 20 mg/kg) results in remarkable colitis improvement in dextran sulfate sodium (DSS)-induced mice model by up-regulating HO-1 and down-regulating phosphorylation level of NF-κB p65 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Wei Wang, et al. Diclofenac and eugenol hybrid with enhanced anti-inflammatory activity through activating HO-1 and inhibiting NF-κB pathway in vitro and in vivo. Eur J Med Chem. 2023 Nov 5;259:115669.

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

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