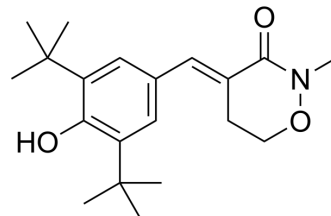


## BF389

<b>Cat. No.:</b>	HY-106897
<b>CAS No.:</b>	127245-22-1
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>29</sub> NO <sub>3</sub>
<b>Molecular Weight:</b>	331.45
<b>Target:</b>	COX; Lipoxygenase
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	BF389 (Biofor 389) is an orally active anti-inflammatory and analgesic agent. BF389 is also an inhibitor of cyclooxygenase and 5-lipoxygenase, with IC <sub>50</sub> s of 4 and 8 µg/mL for COX-1 and COX-2 respectively. BF389 can be used for arthritis research <sup>[1][2][3]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	COX-1 4 µg/mL (IC <sub>50</sub> )	COX-2 8 µg/mL (IC <sub>50</sub> )	5-LOX
<b>In Vitro</b>	BF389 inhibits the production of PGE <sub>2</sub> and LTB <sub>4</sub> formation with IC <sub>50</sub> s of 0.84 µM and 3.65 µM respectively <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
<b>In Vivo</b>	BF389 (1-30 mg/kg, p.o., five daily oral doses) inhibits paw swelling in rats, with an ED <sub>50</sub> of 4.9 mg/kg, indicating the anti-inflammatory activity <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

## REFERENCES

- [1]. Bendele AM, et al. Anti-inflammatory activity of BF389, a Di-T-butylphenol, in animal models of arthritis. *J Pharmacol Exp Ther.* 1992 Jan;260(1):300-5.
- [2]. Wong S, et al. Antiarthritic profile of BF-389--a novel anti-inflammatory agent with low ulcerogenic liability. *Agents Actions.* 1992 Sep;37(1-2):90-8.
- [3]. Mitchell JA, et al. Selectivity of nonsteroidal antiinflammatory drugs as inhibitors of constitutive and inducible cyclooxygenase. *Proc Natl Acad Sci U S A.* 1993 Dec 15;90(24):11693-7.

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

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