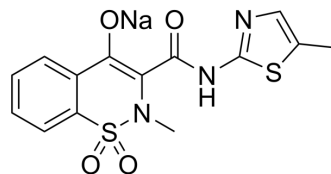


## Meloxicam sodium

<b>Cat. No.:</b>	HY-B0261A
<b>CAS No.:</b>	71125-39-8
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>12</sub> N <sub>3</sub> NaO <sub>4</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	373.38
<b>Target:</b>	COX; MMP; Autophagy; Apoptosis
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease; Autophagy; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Meloxicam sodium is a non-steroidal anti-inflammatory agent, inhibits COX activity, with IC <sub>50</sub> s of 0.49 μM and 36.6 μM for COX-2 and COX-1, respectively <sup>[1]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	COX-2 0.49 μM (IC <sub>50</sub> )	COX-1 36.6 μM (IC <sub>50</sub> )	MMP-2
<b>In Vitro</b>	Meloxicam sodium (0.25 μg/mL) decreases CF41.Mg cell migration and invasion, induces decrease in MMP-2 expression, and increases β-catenin phosphorylation in CF41.Mg cells, but does not affect the CF41.Mg cell apoptosis <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

### CUSTOMER VALIDATION

- Chem-Biol Interact. 2021, 109425.
- Biotechnol Bioeng. 2021 Sep 3.
- JOR Spine. 2023 Oct 18.
- Naunyn Schmiedebergs Arch Pharmacol. 2023 Nov 8.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Lazer ES, et al. Effect of structural modification of enol-carboxamide-type nonsteroidal antiinflammatory drugs on COX-2/COX-1 selectivity. J Med Chem. 1997 Mar 14;40(6):980-9.
- [2]. Iturriaga MP, et al. Meloxicam decreases the migration and invasion of CF41.Mg canine mammary carcinoma cells. Oncol Lett. 2017 Aug;14(2):2198-2206.
- [3]. Fikry EM, et al. Rutin and meloxicam attenuate paw inflammation in mice: Affecting sorbitol dehydrogenase activity. J Biochem Mol Toxicol. 2018 Feb;32(2).

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

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