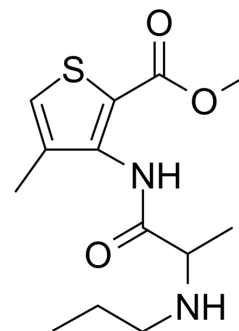


## Articaine

<b>Cat. No.:</b>	HY-B0516A
<b>CAS No.:</b>	23964-58-1
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	284.37
<b>Target:</b>	NF-κB; NOD-like Receptor (NLR); Sodium Channel
<b>Pathway:</b>	NF-κB; Immunology/Inflammation; Membrane Transporter/Ion Channel
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Articaine (Hoe-045 free base) is an amide anaesthetic containing an ester group, reversibly binding to the α-subunit of the voltage-gated sodium channels within the inner cavity of the nerve, can provide effective pain relief. Articaine ameliorates LPS-induced acute kidney injury via inhibition of NF-κB activation and the NLRP3 inflammasome pathway <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	NF-κB, NLRP3, sodium channel <sup>[2][3]</sup>

### REFERENCES

- [1]. Yapp KE, et al. Articaine: a review of the literature. *Br Dent J.* 2011 Apr 9;210(7):323-9.
- [2]. Zhao G, et al. Local anesthetic articaine ameliorates LPS-induced acute kidney injury via inhibition of NF-κB activation and the NLRP3 inflammasome pathway. *J Biochem Mol Toxicol.* 2020 Oct;34(10):e22554.
- [3]. Snoeck M. Articaine: a review of its use for local and regional anesthesia. *Local Reg Anesth.* 2012;5:23-33.

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

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