



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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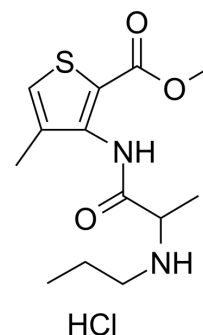
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Articaine hydrochloride

Cat. No.:	HY-B0516
CAS No.:	23964-57-0
Molecular Formula:	C ₁₃ H ₂₁ ClN ₂ O ₃ S
Molecular Weight:	320.84
Target:	Sodium Channel; NF-κB; NOD-like Receptor (NLR)
Pathway:	Membrane Transporter/Ion Channel; NF-κB; Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (311.68 mM; Need ultrasonic)
DMSO : 100 mg/mL (311.68 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.1168 mL	15.5841 mL	31.1682 mL
	5 mM	0.6234 mL	3.1168 mL	6.2336 mL
	10 mM	0.3117 mL	1.5584 mL	3.1168 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (311.68 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Articaine hydrochloride (Hoe-045) 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 hydrochloride ameliorates LPS-induced acute kidney injury via inhibition of NF-κB activation and the NLRP3 inflammasome pathway^{[1][2][3]}.

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

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