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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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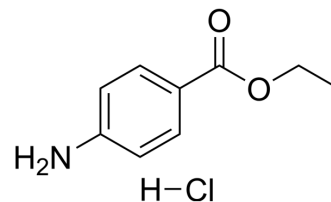
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Benzocaine hydrochloride

Cat. No.:	HY-Y0258A
CAS No.:	23239-88-5
Molecular Formula:	C ₉ H ₁₂ ClNO ₂
Molecular Weight:	201.65
Target:	Bacterial; Sodium Channel
Pathway:	Anti-infection; Membrane Transporter/Ion Channel
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)



BIOLOGICAL ACTIVITY

Description

Benzocaine (hydrochloride) is an orally active local agent that can suppress or relieve pain, that acts on voltage-gated Na⁺ channels at a common receptor, with an IC₅₀ value of 0.8 mM at +30 mV. Additionally, Benzocaine (hydrochloride) non-competitively inhibits Ca-ATPase binding with Ca²⁺, with an IC₅₀ of 47.1 mM. Benzocaine (hydrochloride) can be used in research within the field of neuromuscular regulation^{[1][2][3]}.

CUSTOMER VALIDATION

- Stem Cell Res Ther. 2021 Feb 4;12(1):107.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Wang GK, et al. A common local anesthetic receptor for benzocaine and etidocaine in voltage-gated mu1 Na⁺ channels. Pflugers Arch. 1998 Jan;435(2):293-302.
- [2]. Davis JA, et al. Benzocaine-induced methemoglobinemia attributed to topical application of the anesthetic in several laboratory animal species. Am J Vet Res. 1993 Aug;54(8):1322-6.
- [3]. Di Croce D, et al. Drug action of benzocaine on the sarcoplasmic reticulum Ca-ATPase from fast-twitch skeletal muscle. Naunyn Schmiedebergs Arch Pharmacol. 2015 Nov;388(11):1163-70.

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

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