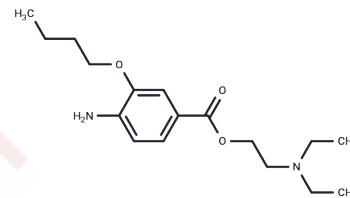


Oxybuprocaine

Chemical Properties

CAS No. :	99-43-4
Formula:	C ₁₇ H ₂₈ N ₂ O ₃
Molecular Weight:	308.42
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Oxybuprocaine is an ester-type local anesthetic that is used especially in ophthalmology and otolaryngology. Oxybuprocaine binds to sodium channels and reversibly stabilizes the neuronal membrane which decreases its permeability to sodium ions.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2423 mL	16.2117 mL	32.4233 mL
5 mM	0.6485 mL	3.2423 mL	6.4847 mL
10 mM	0.3242 mL	1.6212 mL	3.2423 mL
50 mM	0.0648 mL	0.3242 mL	0.6485 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Little WB, Jean GS, Sithole F, Little E, Jean KY. Degree of corneal anaesthesia after topical application of 0.4% oxybuprocaine hydrochloride and 0.5% proparacaine hydrochloride ophthalmic solution in clinically normal cattle. *Aust Vet J.* 2016 Jun;94(6):181-5. doi: 10.1111/avj.12443. PubMed PMID: 27237118.

Giudici V, Baeza S, Douet JY, Regnier A. Corneal anesthesia following application of 0.4% oxybuprocaine hydrochloride ophthalmic solution to normal feline eyes. *Vet Ophthalmol.* 2015 Mar;18(2):141-6. doi: 10.1111/vop.12179. Epub 2014 May 14. PubMed PMID: 24824864.

Fernandez-Garcia P, Cerviño A, Quiles-Guiñau L, Albarran-Diego C, Garcia-Lazaro S, Sanchis-Gimeno JA. Corneal thickness differences between sexes after oxybuprocaine eye drops. *Optom Vis Sci.* 2015 Jan;92(1):89-94. doi: 10.1097/OPX.0000000000000449. PubMed PMID: 25360701.

Douet JY, Michel J, Regnier A. Degree and duration of corneal anesthesia after topical application of 0.4% oxybuprocaine hydrochloride ophthalmic solution in ophthalmically normal dogs. *Am J Vet Res.* 2013 Oct;74(10):1321-6. doi: 10.2460/ajvr.74.10.1321. PubMed PMID: 24066916.

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