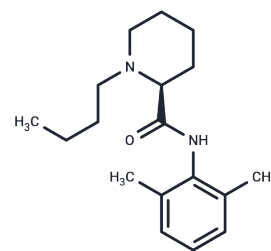


## Levobupivacaine

## Chemical Properties

CAS No. :	27262-47-1
Formula:	C <sub>18</sub> H <sub>28</sub> N <sub>2</sub> O
Molecular Weight:	288.43
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	Levobupivacaine is an amino-amide local anaesthetic drug belonging to the family of n-alkylsubstituted pipercoloxylidide. It is the S-enantiomer of bupivacaine. Levobupivacaine hydrochloride is commonly marketed by AstraZeneca under the trade name Chirocaine. Compared to bupivacaine, levobupivacaine is associated with less vasodilation and has a longer duration of action. It is approximately 13 per cent less potent (by molarity) than racemic bupivacaine. Levobupivacaine is indicated for local anaesthesia including infiltration, nerve block, ophthalmic, epidural and intrathecal anaesthesia in adults; and infiltration analgesia in children. Adverse drug reactions (ADRs) are rare when it is administered correctly. Most ADRs relate to administration technique (resulting in systemic exposure) or pharmacological effects of anaesthesia, however allergic reactions can rarely occur.
Targets(IC50)	Ferroptosis, Sodium Channel

## Solubility Information

Solubility	DMSO: 6 mg/mL (20.8 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.467 mL	17.3352 mL	34.6705 mL
5 mM	0.6934 mL	3.467 mL	6.9341 mL
10 mM	0.3467 mL	1.7335 mL	3.467 mL
50 mM	0.0693 mL	0.3467 mL	0.6934 mL

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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

Ueta K, et al. Reg Anesth Pain Med. 2006 Jan-Feb;31(1):19-25.

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