

Oe-9000

## Chemical Properties

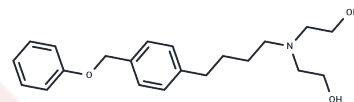
CAS No. : 675132-92-0

Formula: C<sub>21</sub>H<sub>29</sub>NO<sub>3</sub>

Molecular Weight: 343.46

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	Oe-9000 is a blocker of voltage-gated Na(+) currents in neurons. It reversibly reduces rapidly activating and inactivating TTX-sensitive (TTX-S) Na(+) currents as well as slowly activating and inactivating tetrodotoxin-resistant (TTX-R) Na(+) currents at low micromolar concentrations.
Targets(IC50)	Others,Sodium Channel

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9115 mL	14.5577 mL	29.1155 mL
5 mM	0.5823 mL	2.9115 mL	5.8231 mL
10 mM	0.2912 mL	1.4558 mL	2.9115 mL
50 mM	0.0582 mL	0.2912 mL	0.5823 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

Baumgart M, Feller C, Natura G, Dahse T, Schaible HG, Dahse I. Blockade of TTX-resistant and TTX-sensitive Na<sup>+</sup> currents in cultured dorsal root ganglion neurons by fomocaine and the fomocaine derivative Oe 9000. *Brain Res.* 2010 Oct 28;1358:54-63. doi: 10.1016/j.brainres.2010.08.033. Epub 2010 Aug 19. PubMed PMID: 20727863.

Dahse T, Wennek-Klose J, Listing M, Fleck C, Oelschläger H. [In vitro investigations of phase I metabolism of the fomocaine derivative Oe 9000 with pig liver homogenates]. *Pharmazie.* 2006 Nov;61(11):943-51. German. PubMed PMID: 17152988.

Fleck C, Wennek-Klose J, Wange J, Oelschläger H. Effects and toxicity of new fomocaine derivatives and of 2-hydroxypropyl-beta-cyclodextrin inclusion compounds in rats. *Arzneimittelforschung.* 2004;54(5):265-74. PubMed PMID: 15212188.

Fleck C, Karge E, Loy S, Wennek-Klose J, Listing M, Oelschläger H. Local anaesthetic effects and toxicity of seven new diethanolamine and morpholine derivatives of fomocaine. Testing in rats compared with procaine and tetracaine. *Arzneimittelforschung.* 2003;53(3):221-8. PubMed PMID: 12705179.

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