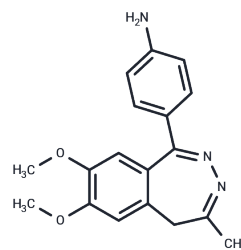


Nerisopam

Chemical Properties

CAS No. :	102771-12-0
Formula:	C ₁₈ H ₁₉ N ₃ O ₂
Molecular Weight:	309.36
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	Nerisopam is an agonist of gamma-aminobutyric acid (GABA) receptor.
Targets(IC50)	GABA Receptor
In vivo	Nerisopam application (30 mg/kg; 5 h; gastric cannula) cells in the reticular zone of the substantia nigra showed Fos-like immunopositivity.[6] Nerisopam (20 mg/kg;13 days; daily) for two weeks after a daily application, relatively weak Fos-like immunoreactivity was observed in the striatum and the subthalamic nucleus but not in the globus pallidus. Our results suggest that the striatal neurons are the primary targets of this anxiolytic and antipsychotic drug in the central nervous system.[6]

Solubility Information

Solubility	DMSO: 25 mg/mL (80.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2325 mL	16.1624 mL	32.3248 mL
5 mM	0.6465 mL	3.2325 mL	6.465 mL
10 mM	0.3232 mL	1.6162 mL	3.2325 mL
50 mM	0.0646 mL	0.3232 mL	0.6465 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

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- Fekete MI, et al. Selective interaction of homophthalazine derivatives with morphine. *Eur J Pharmacol*. 1997 Jul 23; 331(2-3):175-83.
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- Palkovits M, et al. Anxiolytic homophthalazines increase Fos-like immunoreactivity in selected brain areas of the rat. *Eur J Pharmacol*. 1997;331(1):53-63.

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