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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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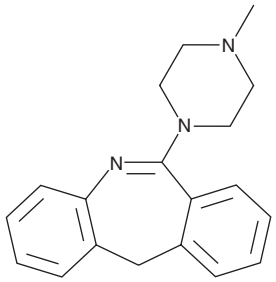
PRODUCT INFORMATION

Perlapine

Item No. 17756

CAS Registry No.:	1977-11-3
Formal Name:	6-(4-methyl-1-piperazinyl)-11H-dibenz[b,e]azepine
Synonyms:	6-(4-Methyl-1-piperazinyl) morphanthridine, NSC 291840
MF:	$C_{19}H_{21}N_3$
FW:	291.4
Purity:	≥98%
Supplied as:	A crystalline solid
UV/Vis.:	λ_{max}: 250, 306 nm
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

For long term storage, we suggest that perlapine be stored as supplied at -20°C. It should be stable for at least two years.

Perlapine is supplied as a crystalline solid. A stock solution may be made by dissolving the perlapine in the solvent of choice. Perlapine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of perlapine in ethanol is approximately 5 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Perlapine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, perlapine should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Perlapine has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Perlapine is an atypical neuroleptic that blocks dopamine and serotonin (5-HT) receptors (K_is = 60, 30, and 30 nM for D_2, D_4, and 5-HT_{2A}, respectively).[1] Perlapine is also an agonist for hM3Dq, a designer receptor exclusively activated by designer drugs (DREADDs) derived from the human muscarinic acetylcholine M_3 receptor that activates neuronal firing.[2] Perlapine displays >10,000-fold selectivity for hM3Dq over hM3.[2]

References

1. Seeman, P., Corbett, R., and Van Tol, H.H. Atypical neuroleptics have low affinity for dopamine D_2 receptors or are selective for D_4 receptors. *Neuropsychopharmacology* **16(2)**, 93-110 (1997).
2. Chen, X., Choo, H., Huang, X.-P., *et al*. The first structure-activity relationship studies for designer receptors exclusively activated by designer drugs. *ACS Chem. Neurosci.* **6(3)**, 476-484 (2015).

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