4,4'-Dimethylaminorex
Item No. 15281

Formal Name: 4-methyl-5-(p-tolyl)-4,5-dihydrooxazol-2-amine
Synonym: 4,4'-DMAR
MF: C\textsubscript{11}H\textsubscript{14}N\textsubscript{2}O
FW: 190.3
Purity: ≥98% (mixture of diastereomers)
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: "λ\textsubscript{max}" 218 nm

Laboratory Procedures
For long term storage, we suggest that 4,4'-dimethylaminorex (4,4'-DMAR) be stored as supplied at -20°C. It should be stable for at least two years.
4,4'-DMAR is supplied as a crystalline solid. A stock solution may be made by dissolving the 4,4'-DMAR in the solvent of choice. 4,4'-DMAR is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 4,4'-DMAR in PBS, pH 7.2, is approximately 30 mg/ml.
Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 4,4'-DMAR can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 4,4'-DMAR in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.
4,4'-DMAR is a designer drug and para-methyl derivative of 4-methylaminorex, an amphetamine-like stimulant. 4,4'-DMAR is a less common alternative to 4-methylaminorex, although the latter is an internationally controlled substance. The physiological and toxicological properties of this compound are not known. This product is intended for forensic and research applications.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/15281