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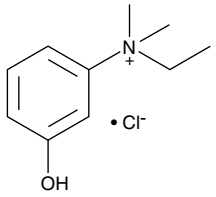
Product Information

Edrophonium (chloride)

Item No. 15928

CAS Registry No.: 116-38-1
Formal Name: N-ethyl-3-hydroxy-N,N-dimethyl-benzenaminium, monochloride
Synonyms: Enlon®, Tensilon®
MF: $C_{10}H_{16}NO \bullet Cl$
FW: 201.7
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 223, 277 nm



Laboratory Procedures

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

Edrophonium (chloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the edrophonium (chloride) in the solvent of choice. Edrophonium (chloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of edrophonium (chloride) in these solvents is approximately 10, 2, and 0.5 mg/ml, respectively.

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 edrophonium (chloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of edrophonium (chloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Edrophonium (chloride) is an acetylcholinesterase (AChE) inhibitor that is known to prevent the breakdown of the neurotransmitter acetylcholine by binding specifically to its catalytic site.[1] It has been shown to inhibit AChE activity in human red blood cells, purified calf forebrain, and purified octopus brain with K_i values of 0.2, 0.2, and 0.4 µM, respectively.[2] Edrophonium is often used as part of a battery of pharmacological tests to confirm a diagnosis of the autoimmune neuromuscular junction disorder, myasthenia gravis.[3]

References

1. Roufogalis, B.D. and Wickson, V.M. Acetylcholinesterase: specificity of the peripheral anionic site for cholinergic ligands. *Mol. Pharm.* **11**, 352-60 (2011).
2. Boyle, N.A., Talesa, V., Giovannini, E., *et al.* Synthesis and study of thiocarbonate derivatives of choline as potential inhibitors of acetylcholinesterase. *J. Med. Chem.* **40(19)**, 3009-3013 (1997).
3. Juel, V.C. and Massey, J.M. Myasthenia gravis. *Orphanet J. Rare Dis.* **2**, 44 (2007).

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