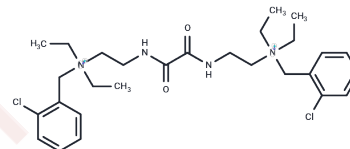


Ambenonium

Chemical Properties

CAS No. :	7648-98-8
Formula:	C ₂₈ H ₄₂ Cl ₂ N ₄ O ₂
Molecular Weight:	537.57
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Ambenonium (WIN 8077) is a competitive and reversible cholinesterase AChE inhibitor with the advantage of being orally available with an IC ₅₀ = 0.7 nM for the treatment of myasthenia gravis.
Targets(IC ₅₀)	Others
In vitro	Ambenonium inhibited human AChE with high potency (IC ₅₀ = 0.0007 μM; Ellman's method; 20min incubation), and showed strong selectivity over BChE (IC ₅₀ = 8.2 μM)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8602 mL	9.3011 mL	18.6022 mL
5 mM	0.372 mL	1.8602 mL	3.7204 mL
10 mM	0.186 mL	0.9301 mL	1.8602 mL
50 mM	0.0372 mL	0.186 mL	0.372 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

Bolognesi ML, Cavalli A, Andrisano V, Bartolini M, Banzi R, Antonello A, Rosini M, Melchiorre C. Design, synthesis and biological evaluation of ambenonium derivatives as AChE inhibitors. *Farmaco*. 2003 Sep;58(9):917-28.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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