
Product Data Sheet

Product Name: Demecarium Bromide (BC-48)

Cat. No.: GC31190

Chemical Properties

Cas. No. 56-94-0

SMILES O=C(N(CCCCCCCCCCN(C(OC1=CC([N+](C)(C)C)=CC=C1)=O)C)C)OC2=CC([N+](C)(C)C)=CC=C2.[Br-].[Br-]

Formula C₃₂H₅₂Br₂N₄O₄ M.Wt 716.59

Solubility DMSO : 160 mg/mL (223.28 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure Demecarium Bromide (BC-48)**Background**

Demecarium Bromide (BC-48) is a potent cholinesterase antagonist, with an apparent affinity (Kiapp) of 0.15 μM[1]. Demecarium Bromide (BC-48) is used as a glaucoma agent[2].

Demecarium Bromide (0.125 and 0.5%) causes long-term miosis and decreases intraocular pressure (IOP) in beagles with both normotensive eyes and inherited glaucoma[1].

[1]. Brown JH, et al. Activation and blockade of cardiac muscarinic receptors by endogenous acetylcholine and cholinesterase inhibitors. J Pharmacol Exp Ther. 1982 Oct;223(1):20-4. [2]. Gum GG, et al. Effect of topically applied demecarium bromide and echothiophate iodide on intraocular pressure and pupil size in beagles with normotensive eyes and beagles with inherited glaucoma. Am J Vet Res. 1993 Feb;54(2):287-93.

Caution: Product has not been fully validated for medical applications. For research use only.

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