
Product Data Sheet

Product Name: Bethanechol chloride

Cat. No.: GC14419

Chemical Properties

Cas. No. 590-63-6

Chemical Name 2-carbamoyloxypropyl(trimethyl)azanium;chloride

SMILES CC(C[N+](C)(C)C)OC(=O)N.[Cl-]Formula $C_7H_{17}N_2O_2 \cdot Cl$ M.Wt 196.68Solubility $\geq 9.834\text{mg/mL}$ in Water 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 **Background**

Bethanechol Chloride (Carbamyl- β -methylcholine chloride) is a selective muscarinic receptor agonist without any effect on nicotinic receptors. Target: mAChR. Bethanechol Chloride (Carbamyl- β -methylcholine chloride) is a parasympathomimetic choline carbamate that selectively stimulates muscarinic receptors without any effect on nicotinic receptors. Unlike acetylcholine, Bethanechol Chloride (Carbamyl- β -methylcholine chloride) is not hydrolyzed by cholinesterase and will therefore have a long duration of action. Oral bethanechol significantly improves contraction pressures and bolus transit in the smooth muscle portion of the esophagus in patients with severe IEM [1]. Bethanechol Chloride (Carbamyl- β -methylcholine chloride) has potential benefit in the treatment of cerebral palsy [2].

References:

[1]. Agrawal, A., et al., Bethanechol improves smooth muscle function in patients with severe ineffective esophageal motility. J Clin Gastroenterol, 2007. 41(4): p. 366-70.

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

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[2]. Carter, W.J., Unexpected benefits of bethanechol in adults with cerebral palsy. Med J Aust, 2008. 189(5): p. 293.

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