

Product Data Sheet

Product Name: Carbamoylcholine chloride

Cat. No.: GC16937

Chemical Properties

Cas. No. 51-83-2

Chemical Name 2-(carbamoyloxy)-N,N,N-trimethylethanaminium chloride

SMILES O=C(N)OCC[N+](C)(C)C.[Cl-]

Formula $C_6H_{15}ClN_2O_2$ M.Wt 182.65

Solubility DMSO: 0.1 mg/ml, PBS (pH 7.2): 5 mg/ml 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.

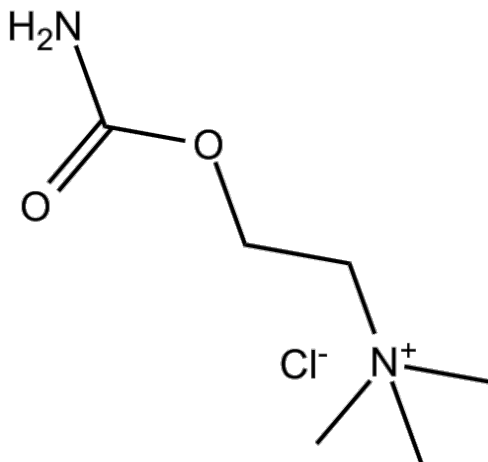
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Structure



Background

Carbamoylcholine chloride is used to study responses mediated by nAChR and mAChR, including smooth muscle contraction, gut motility, and neuronal signaling. IC₅₀ value: 10 to 10,000 nM (Ki) Target: nAChR, mAChR Carbamoylcholine is an analog of acetylcholine that activates acetylcholine receptors (AChR). Carbamoylcholine is an agonist of both nicotinic (nAChR) and muscarinic (mAChR) receptors, with reported Ki values ranging from 10 to 10,000 nM for different receptors and different preparations.

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