
Product Data Sheet

Product Name: Propantheline bromide

Cat. No.: GC31042

Chemical Properties

Cas. No. 50-34-0

SMILES CC([N+](C(C)C)(C)CCOC(C1C2=C(OC3=C1C=CC=C3)C=CC=C2)=O)C.[Br-]Formula C₂₃H₃₀BrNO₃

M.Wt 448.39

Solubility DMSO: ≥ 100 mg/mL (223.02 mM); Water: 50 mg/mL (111.51 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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

Propantheline is an anticholinergic agent.^{1,2,3} It inhibits contraction of isolated guinea pig ileum induced by acetylcholine and reduces intensity of vagal-stimulated gastric contractions in rats.¹ Propantheline (5 mg/kg, s.c.) increases gastric pH and prevents pyloric ligation-induced gastric ulcer formation in Shay rats.² It also inhibits basal and pentagastrin-, but not histamine-, stimulated gastric secretion in a rhesus monkey model of chronic gastric fistula.³ Formulations containing propantheline have been used to treat stomach and intestinal spasms associated with irritable bowel syndrome.

1. Aarsen, P.N., and Noordwijk, J.V. The effect of atropine, propantheline and poldine on the vagally stimulated gastric motility and the histamine-stimulated acid gastric secretion in the rat. *Br. J. Pharmacol. Chemother.* 17:41-50 (1961)
 2. Kowalewski, K., MacKenzie, W.C., Shnitka, T.K., et al. Protective action of pro-banthine (SC-3171) on experimental gastric ulcers of rats. *Can. Med. Assoc. J.* 71(5):477-482 (1954)
 3. Dajani, E.Z., Callison, D.A., and Bianchi, R.G. Gastric antisecretory effects of propantheline bromide and metiamide in rhesus monkeys. *Arch. Int. Pharmacodyn. Ther.* 234(1):107-117 (1978)

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

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