

Glycopyrrolate

Catalog No: tcsc1763

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:

596-51-0

Formula:

 $\mathsf{C_{19}H_{28}BrNO_{3}}$

Pathway: Neuronal Signaling;GPCR/G Protein

Target:

mAChR;mAChR

Purity / Grade:

Solubility: H2O : ≥ 45 mg/mL (112.97 mM)

Alternative Names:

Glycopyrrolate bromide; Glycopyrronium bromide

Observed Molecular Weight:

398.33

Product Description

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Glycopyrrolate(Glycopyrronium Br) is a muscarinic competitive antagonist used as an antispasmodic.

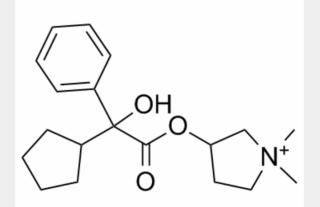
IC50 Value:

Target: mAChR (Muscarinic acetylcholine receptor M1)

in vitro: Glycopyrrolate showed no selectivity in its binding to the M1-M3 receptors. Kinetics studies, however, showed that glycopyrrolate dissociates slowly from HASM muscarinic receptors (60% protection against [3H]-NMS binding at 30 nM) compared to ipratropium bromide [1].

in vivo: Glycopyrrolate (1 mg) tablets were then administered, starting with one tablet daily the third week and increasing the daily dose by one tablet per week until a maximum of four tablets during week six and 4 days of week seven when the daily dose was reduced to two tablets for 3 days. glycopyrrolate can be given in controlled doses provided that an adequate medical assessment has been undertaken [2]. Glycopyrrolate has a slow and erratic absorption from the gastrointestinal system, but even low plasma levels are associated with a distinct and long-lasting antisialogic effect [3]. Oral glycopyrrolate is emerging as a potential second-line treatment option, but experience with safety, efficacy, and dosing is especially limited in children [4]. phase III study, 52.3% of glycopyrrolate oral solution recipients (aged 3-18 years; n = 137) had an mTDS response (primary endpoint); the response rate was consistently above 50% at all 4-weekly timepoints, aside from the first assessment at week 4 (40.3%). In general, glycopyrrolate oral solution was well tolerated in clinical trials. The majority of adverse events were within expectations as characteristic anticholinergic outcomes [5].

Toxicity: Side effects include dry mouth, difficult urinating, heachaches, diarrhea and constipation. The medication also induces drowsiness or blurred vision. LD50=709 mg/kg (rat, oral).



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