

---

**Product Data Sheet**

---

Product Name: Diphenhydramine HCl

Cat. No.: GC10445

**Chemical Properties**

Cas. No. 147-24-0

Chemical Name 2-benzhydryloxy-N,N-dimethylethanamine;hydrochloride

SMILES CN(C)CCOC(C1=CC=CC=C1)C2=CC=CC=C2.ClFormula  $C_{17}H_{21}NO.HCl$  M.Wt 291.82Solubility  $\geq 12.15\text{mg/mL}$  in DMSO Storage Store at  $-20^{\circ}\text{C}$ General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}\text{C}$  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**

Diphenhydramine hydrochloride, a histamine H1 antagonist used as an antiemetic, antitussive, for dermatoses and pruritus, for hypersensitivity reactions, as a hypnotic, an antiparkinson, and as an ingredient in common cold preparations. Target: Histamine H1 receptor

Diphenhydramine hydrochloride, a histamine H1 antagonist used as an antiemetic, antitussive, for dermatoses and pruritus, for hypersensitivity reactions, as a hypnotic, an antiparkinson, and as an ingredient in common cold preparations. It has some undesired antimuscarinic and sedative effects. Diphenhydramine competes with free histamine for binding at HA-receptor sites. This antagonizes the effects of histamine on HA-receptors, leading to a reduction of the negative symptoms brought on by histamine HA-receptor binding.

**References:**

[1]. Benadryl. From Wikipedia, the free encyclopedia

**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