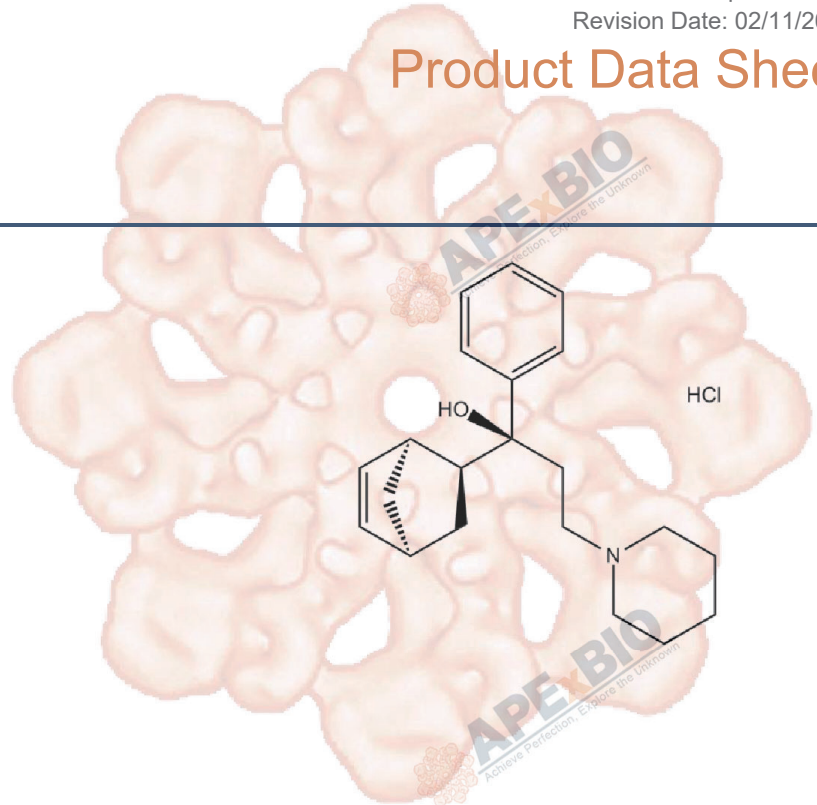


# Product Data Sheet

## Biperiden HCl

<b>Cat. No.:</b>	B1598
<b>CAS No.:</b>	1235-82-1
<b>Formula:</b>	C <sub>21</sub> H <sub>30</sub> CINO
<b>M.Wt:</b>	347.92
<b>Synonyms:</b>	
<b>Target:</b>	Neuroscience
<b>Pathway:</b>	Muscarinic Receptor
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O; ≥8.27 mg/mL in EtOH with ultrasonic; ≥8.7 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass Concentration	1mg	5mg	10mg
			1 mM	2.8742 mL	14.3711 mL
		5 mM	0.5748 mL	2.8742 mL	5.7484 mL
		10 mM	0.2874 mL	1.4371 mL	2.8742 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

Anticholinergic drug

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Preparation method:

In Vivo

#### Animal experiment

Animal models:

Male Lister Hooded rats model;

Dosage form:

3, and 10 mg/kg; intraperitoneal injection; for 90 min; or 4 mg, oral administration

Applications:	Biperiden HCl acted as cognition impairer in rats and Biperiden (10 mg/kg) induced side-effects, with rats taking more time to start the task [1]. Moreover, oral doses of 4 mg of Biperiden HCl reached a Cmax of approximately 4 ng/mL [2].
Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

1. Popelíková A, Bahník Š, et al. "Mnemonic and behavioral effects of biperiden, an M1-selective antagonist, in the rat." *Psychopharmacology (Berl)*. 2018 Jul;235(7):2013-2025.PMID:29680966

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## References

1. Szczodry, O., van der Staay, F. J. and Arndt, S. S. (2014) Modelling Alzheimer-like cognitive deficits in rats using biperiden as putative cognition impairer. *Behav Brain Res*. 274, 307-311
2. Brocks, D. R. (1999) Anticholinergic drugs used in Parkinson's disease: An overlooked class of drugs from a pharmacokinetic perspective. *J Pharm Pharm Sci*. 2, 39-46

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

**APEX BIO Technology**

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