Product Information

Benocyclidine

Item No. 11737

CAS Registry No.: 112726-66-6
Formal Name: 1-(1-benzo[b]thien-2-ylcyclohexyl)-piperidine
Synonyms: BCP, Benzothiophenylcyclohexylpiperidine, BTCP, GK 13
MF: C_{19}H_{25}NS
FW: 299.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

UV/Vis.:

\[ \lambda_{\text{max}}: 229, 270, 300 \text{ nm} \]

Laboratory Procedures

For long term storage, we suggest that benocyclidine (BCP) be stored as supplied at -20°C. It should be stable for at least two years.

BCP is supplied as a crystalline solid. A stock solution may be made by dissolving the BCP in the solvent of choice. BCP is soluble in organic solvents such as ethanol and dimethyl formamide, which should be purged with an inert gas. The solubility of BCP in these solvents is approximately 2 and 5 mg/ml, respectively.

BCP is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

BCP is a derivative of phencyclidine with a benzothiophenyl group instead of a phenyl ring. It acts as a potent and selective dopamine reuptake inhibitor (IC{sub 50} = 8 nM) with negligible affinity for the NMDA receptor-linked phencyclidine receptor (K{sub 0.5} = 6 μM).{sup 1,2} BCP has been used to label the dopamine transporter in the mouse brain.{sup 3} This product is intended for forensic and research applications.

References


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11737

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**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**MATERIAL SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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