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- Mindermengenzuschlag
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- Expressversand

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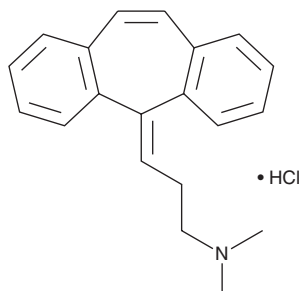
PRODUCT INFORMATION



Cyclobenzaprine (hydrochloride)

Item No. 15885

CAS Registry No.: 6202-23-9
Formal Name: 3-(5H-dibenzo[a,d]cyclohepten-5-ylidene)-N,N-dimethyl-1-propanamine, monohydrochloride
Synonym: MK-130
MF: C₂₀H₂₁N • HCl
FW: 311.9
Purity: ≥98%
Supplied as: A neat solid
Storage: -20°C
Stability: ≥3 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Cyclobenzaprine is a skeletal muscle relaxant that also has sedative properties.¹⁻³ It has been shown to antagonize muscarinic receptors (K_i s = 25, 60, and 6 nM for M₁, M₂, and M₃, respectively), serotonin 5-HT₂ receptors (K_i s = 56 and 330 nM for 5-HT_{2C} and 5-HT_{2B}, respectively), and histamine H₁ receptor (IC_{50} = 20 nM).⁴⁻⁶

This product is qualified as a Reference Material that has been manufactured and tested to ISO/IEC 17025 and ISO 17034 international standards for reference materials.

References

1. Trivedi, R.K. and Patel, M.C. Development of a stability-indicating RP-UPLC method for rapid determination of metaxalone and its degradation products in solid oral dosage form. *Sci. Pharm.* **80**(2), 353-366 (2012).
2. Chou, R., Peterson, K., and Helfand, M. Comparative efficacy and safety of skeletal muscle relaxants for spasticity and musculoskeletal conditions: A systematic review. *J. Pain Symptom Manage.* **28**(2), 140-175 (2004).
3. See, S. and Ginzburg, R. Choosing a skeletal muscle relaxant. *Am. Fam. Physician* **78**(3), 365-370 (2008).
4. Gregori-Puigjané, E., Setola, V., Hert, J., et al. Identifying mechanism-of-action targets for drugs and probes. *Proc. Natl. Acad. Sci. USA* **109**(28), 11178-11183 (2012).
5. Honda, M., Nishida, T., and Ono, H. Tricyclic analogs cyclobenzaprine, amitriptyline and cyproheptadine inhibit the spinal reflex transmission through 5-HT₂ receptors. *Eur. J. Pharmacol.* **458**(1-2), 91-99 (2003).
6. Lounkine, E., Keiser, M.J., Whitebread, S., et al. Large scale prediction and testing of drug activity on side-effect targets. *Nature* **486**(7403), 361-367 (2012).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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