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Zuschläge

- Mindermengenzuschlag
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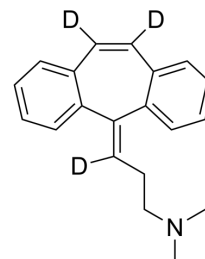
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Cyclobenzaprine-d₃-1 hydrochloride

Cat. No.:	HY-B0740S3
CAS No.:	2712897-38-4
Molecular Formula:	C ₂₀ H ₁₉ D ₃ ClN
Molecular Weight:	314.87
Target:	Isotope-Labeled Compounds; 5-HT Receptor; Parasite
Pathway:	Others; GPCR/G Protein; Neuronal Signaling; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



HCl

BIOLOGICAL ACTIVITY

Description

Cyclobenzaprine-d₃-1 hydrochloride (MK130-d₃-1 hydrochloride) is the deuterium labeled Cyclobenzaprine hydrochloride (HY-B0740). Cyclobenzaprine (MK130) hydrochloride is an orally active 5-HT₂ receptor antagonist. Cyclobenzaprine hydrochloride acts centrally, providing skeletal muscle relaxation, alleviating muscle spasms, and reducing pain. Additionally, Cyclobenzaprine hydrochloride has antiprotozoal activity. Additionally, Cyclobenzaprine hydrochloride also possesses antiparasitic activity. Cyclobenzaprine hydrochloride holds promise for research in the fields of acute, painful skeletal muscle disorders and infectious diseases^{[1][2][3][4][5]}

REFERENCES

- [1]. Kobayashi, H., Y. Hasegawa, and H. Ono, Cyclobenzaprine, a centrally acting muscle relaxant, acts on descending serotonergic systems. *Eur J Pharmacol*, 1996. 311(1): p. 29-35.
- [2]. Borenstein D G & Korn S. Efficacy of a low-dose regimen of cyclobenzaprine hydrochloride in acute skeletal muscle spasm: results of two placebo-controlled trials[J]. *Clinical therapeutics*, 2003, 25(4): 1056-1073.
- [3]. Share N N, et al. Cyclobenzaprine: a novel centrally acting skeletal muscle relaxant[J]. *Neuropharmacology*, 1975, 14(9): 675-684.
- [4]. Honda, M., T. Nishida, and H. Ono, Tricyclic analogs cyclobenzaprine, amitriptyline and cyproheptadine inhibit the spinal reflex transmission through 5-HT(2) receptors. *Eur J Pharmacol*, 2003. 458(1-2): p. 91-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

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