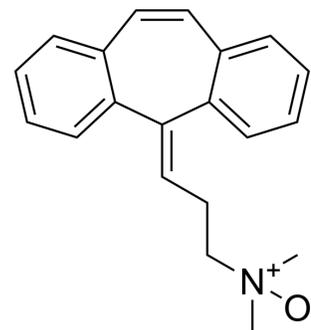


Cyclobenzaprine N-oxide

Cat. No.:	HY-133797
CAS No.:	6682-26-4
Molecular Formula:	C ₂₀ H ₂₁ NO
Molecular Weight:	291.39
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Cyclobenzaprine N-oxide is the tertiary amine metabolite of Cyclobenzaprine (HY-B0740) in liver particles. Cyclobenzaprine is a skeletal muscle relaxant and is active on the central nervous system. The liver cytosol from liver particles has reductase activity that can reduce Cyclobenzaprine N-oxide to the corresponding amine^{[1][2][3]}.

REFERENCES

- [1]. Kitamura S, et al. Reduction of tertiary amine N-oxides by liver preparations: function of aldehyde oxidase as a major N-oxide reductase. *Biochem Biophys Res Commun.* 1984 Jun 29;121(3):749-54.
- [2]. Kobayashi, et al. Ono, Cyclobenzaprine, a centrally acting muscle relaxant, acts on descending serotonergic systems. *Eur J Pharmacol*, 1996. 311(1): p. 29-35.
- [3]. Belvedere G, et al. Identification of cyclobenzaprine-10, 11-epoxide and other metabolites after incubation of cyclobenzaprine with rat liver microsomes[J]. *Xenobiotica*, 1975, 5(12): 765-771.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA