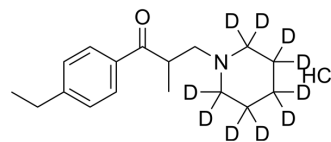


Eperisone-d₁₀ hydrochloride

Cat. No.:	HY-B1901S
CAS No.:	1246819-46-4
Molecular Formula:	C ₁₇ H ₁₆ D ₁₀ ClNO
Molecular Weight:	305.91
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Eperisone-d ₁₀ (hydrochloride) is the deuterium labeled Eperisone hydrochloride. Eperisone Hydrochloride ((±)-Eperisone hydrochloride) is an antispastic agent used for treatment of diseases characterized by muscle stiffness and pain. It works by relaxing both skeletal muscles and vascular smooth muscles, thus demonstrating a variety of effects such as reduction of myotonia, improvement of circulation and suppression of the pain reflex. Eperisone Hydrochloride ((±)-Eperisone hydrochloride) is a centrally acting muscle relaxant inhibiting the pain reflex pathway, having a vasodilator effect [1] [2] [3].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Cabitza P, et al. Efficacy and safety of eperisone in patients with low back pain: a double blind randomized study. *Eur Rev Med Pharmacol Sci.* 2008 Jul-Aug;12(4):229-35.
- [3]. Frandisco Colomer Rusinvol, et al. Effects of Two Different Doses of Eperisone in the Treatment of Acute Low Back Pain. *The Journal of Applied Research.*
- [4]. Bavage S, et al. Clinical efficacy and safety of eperisone for low back pain: A systematic literature review. *Pharmacol Rep.* 2016 Oct;68(5):903-12.

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