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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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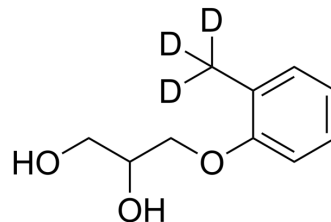
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Mephenesin-d₃

Cat. No.:	HY-B1283S
Molecular Formula:	C ₁₀ H ₁₁ D ₃ O ₃
Molecular Weight:	185.23
Target:	Isotope-Labeled Compounds; iGluR
Pathway:	Others; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Mephenesin-d₃ is deuterium labeled Mephenesin. Mephenesin is an NMDA receptor antagonist. Mephenesin is also a central muscle relaxant with antianxiety, muscle-paralyzing and anticonvulsant effects. Mephenesin acts directly on the skeletal muscle fibres to produce skeletal muscle relaxation. Mephenesin is promising for research of spasticity or painful muscle spasm^{[1][2][3][4][5][6]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Crankshaw DP, et al. Mephenesin, methocarbamol, chlorthalidone and diazepam: actions on spinal reflexes and ventral root potentials. *Br J Pharmacol*. 1970 Jan;38(1):148-56.
- [3]. Mephenesin: abuse and dependence. *Prescrire Int*. 2013 May;22(138):127-128.
- [4]. Ludwig B J, et al. Muscle-paralyzing compounds related to mephenesin[J]. *Journal of the American Chemical Society*, 1952, 74(8): 1935-1939.
- [5]. ?cija P, et al. Conformational flexibility of mephenesin. *J Phys Chem B*. 2014 May 22;118(20):5357-5364.
- [6]. DIAZ-RIVERA RS, et al. Muscular relaxation in tetanus with special reference to the effect of mephenesin. *Ann Intern Med*. 1954 Mar;40(3):563-80.

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

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