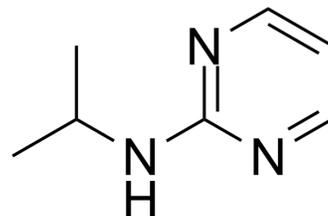


Isaxonine

Cat. No.:	HY-W129456
CAS No.:	4214-72-6
Molecular Formula:	C ₇ H ₁₁ N ₃
Molecular Weight:	137.18
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description Isaxonine acts as a modifier of the surface pH of the bilayer^[1]. Isaxonine accelerates the rate of peripheral nerve regeneration, stimulate axonal sprouting and promote motor and sensory function recovery^[2]. Isaxonine is a neurotrophic agent^[3].

In Vitro Isaxonine has a favourable effect on nerve regeneration. After 8 weeks small type grouping is seen in rats receiving solvent only and large type grouping in rats treated with intraperitoneal Isaxonine. After 10 weeks a checkerboard pattern of the fibre types is observed in the muscles of animals receiving solvent only but fibre type grouping was present in those treated with Isaxonine. Isaxonine prevents synaptic remodelling by suppression of the redundant nerve endings from additional axons, which have regenerated more slowly, in making contact with motor endplates^[4]. Isaxonine phosphate induces acute hepatitis which in most cases is reversible after withdrawal of the compound^[5]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. De Bleecker J, et al. Influence of isaxonine on the target phenomenon, muscle fibre size and neuromuscular junction in the tenotomized and denervated gastrocnemius muscle of the rat. *Acta Neuropathol.* 1986;69(3-4):337-340.
- [2]. J De Bleecker, et al. Influence of Isaxonine on the target phenomenon, muscle fibre size and neuromuscular junction in the tenotomized and denervated gastrocnemius muscle of the rat. *Acta Neuropathol.* 1986;69(3-4):337-40.
- [3]. C M Becker, et al. Nerve and muscle regeneration after axonal division in rats treated with Isaxonine phosphate (isopropylamino-2-pyrimidine phosphate). *Eur Surg Res.* 1986;18(6):383-9.
- [4]. J De Reuck, et al. Influence of Isaxonine on reinnervation of the rat gastrocnemius muscle. *Acta Neuropathol.* 1987;72(4):406-8.
- [5]. A Davy, et al. [Hepatotoxicity of Isaxonine phosphate: 4 cases of severe subacute hepatitis]. *Gastroenterol Clin Biol.* 1984 Oct;8(10):715-9.

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

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