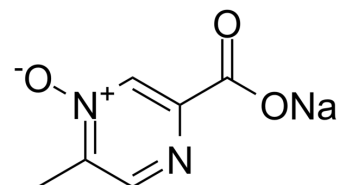


## Acipimox sodium

Cat. No.:	HY-B0283A
CAS No.:	76958-97-9
Molecular Formula:	C <sub>6</sub> H <sub>5</sub> N <sub>2</sub> NaO <sub>3</sub>
Molecular Weight:	176.11
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Acipimox (K-9321) sodium, a nicotinic acid analogue, is an antilipolytic compound. Acipimox sodium stimulates leptin release, inhibits lipolysis and suppresses systemic levels of free fatty acids (FFAs) and improves insulin sensitivity <sup>[1][2][3]</sup> .	
In Vitro	Acipimox sodium (0-100 µM; 0-4 hours) enhances leptin release from adipocytes isolated from Sprague-Dawley rats in a time- and dose- dependent manner <sup>[2]</sup> . Acipimox sodium (10 mM) stimulates leptin release in adipocytes from Streptozotocin (STZ)-treated and Zucker diabetic fat (ZDF) rats <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Acipimox sodium (50 mg/kg; i.p.) significantly lowers circulating free fatty acid (FFA) and glucose in high-fat fed mice <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Acipimox sodium (50 mg/kg; i.p.) significantly lowers circulating free fatty acid (FFA) and glucose in high-fat fed mice <sup>[3]</sup> .
	Dosage:	50 mg/kg
	Administration:	Intraperitoneal injection
	Result:	Reduced circulating levels of FFA and glucose after 3 h.

### REFERENCES

- [1]. Vestergaard ET, et, al. Short-term acipimox treatment is associated with decreased cardiac parasympathetic modulation. Br J Clin Pharmacol. 2017 Dec;83(12):2671-2677.
- [2]. Wang-Fisher YL, et, al. Acipimox stimulates leptin production from isolated rat adipocytes. J Endocrinol. 2002 Aug;174(2):267-72.
- [3]. Åhrén B. Reducing plasma free fatty acids by acipimox improves glucose tolerance in high-fat fed mice. Acta Physiol Scand. 2001 Feb;171(2):161-7.

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

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