Acipimox

MedChemExpress

Cat. No.:	HY-B0283				
CAS No.:	51037-30-0				
Molecular Formula:	$C_6H_6N_2O_3$				
Molecular Weight:	154.12				
Target:	Others				
Pathway:	Others				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (648.85 mM) H ₂ O : 20 mg/mL (129.77 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.							
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	6.4885 mL	32.4423 mL	64.8845 mL			
		5 mM	1.2977 mL	6.4885 mL	12.9769 mL			
		10 mM	0.6488 mL	3.2442 mL	6.4885 mL			
	Please refer to the sol	lubility information to select the app	propriate solvent.					
In Vivo		1. Add each solvent one by one: PBS Solubility: 46.67 mg/mL (302.82 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (16.22 mM); Clear solution							
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.22 mM); Clear solution							
		4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.22 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description

Acipimox (K-9321), a nicotinic acid analogue, is an antilipolytic compound. Acipimox stimulates leptin releas, inhibits lipolysis and suppresses systemic levels of free fatty acids (FFAs) and improves insulin sensitivity^{[1][2][3]}.

HO

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e ^[3] .		
Reduced circulating levels of FFA and glucose after 3 h.		

CUSTOMER VALIDATION

• bioRxiv. 2023 Mar 29.

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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]. Ahrén 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.

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

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