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Product Information

Product ID T7133 CAS No. 5011-34-7

Chemical Name 1-[(2,3,4-trimethoxyphenyl)methyl]piperazine

Synonym

Formula C₁₄H₂₂N₂O₃ Formula Wt. 266.34

Melting Point

Purity ≥98% Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
T7133	250 mg	\$78.60
T7133	1 g	\$124.00
T7133	5 q	\$465.00

Store Temp Ambient Ship Temp Ambient

Description Trimetazidine is a compound that exhibits anti-anginal, anti-ischemic, and cardioprotective activities; it inhibits long-chain 3ketoacyl-CoA thiolase. Trimetazidine reverses pro-inflammatory effects of TNF-α in animal models, including preventing decreases in myosin heavy chain production and myotube size. Trimetazidine prevents muscle wasting and atrophy; its mechanism may involve activation of Akt/mTOR2 signaling. In animal models of ischemia/reperfusion, trimetazidine decreases superoxide generation and caspase-3 activity, decreasing infarct size. In clinical settings, this compound decreases free fatty acid oxidation, improving cardiac function, insulin sensitivity, and glucose control. Trimetazidine also treats vertigo and may act as an antagonist at kainate and AMPA receptors. TEST!!!!!!

References Ferraro E, Giammarioli AM, Caldarola S, et al. The metabolic modulator trimetazidine triggers autophagy and counteracts stress-induced atrophy in skeletal muscle myotubes. FEBS J. 2013 Oct;280(20):5094-108. PMID: 23953053.

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Tuunanen H, Engblom E, Naum A, et al. Trimetazidine, a metabolic modulator, has cardiac and extracardiac benefits in idiopathic dilated cardiomyopathy. Circulation. 2008 Sep 16;118(12):1250-8. PMID: 18765391.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.