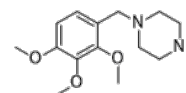


Product Name : Trimetazidine
Cat. No. : PC-24347
CAS No. : 5011-34-7
Molecular Formula : C₁₄H₂₂N₂O₃
Molecular Weight : 266.34
Target : Autophagy
Solubility : 10 mM in DMSO



Biological Activity

Trimetazidine is a potent, selective long chain 3-ketoacyl coenzyme A thiolase (LC 3-KAT) inhibitor with IC₅₀ of 75 nM, inhibit β-oxidation of free fatty acid (FFA).

Trimetazidine is an effective antianginal agent and a cytoprotective agent, has anti-oxidant, anti-inflammatory, antinociceptive and gastroprotective properties.

Trimetazidine also triggers autophagy.

Trimetazidine is also a 3-hydroxyacyl-CoA dehydrogenase (HADHA) inhibitor.

References

Hossain F, et al. Cancer Immunol Res. 2015 Nov;3(11):1236-47.

Shenghu He, et al. Journal of Geriatric Cardiology, December 2008 , Vol 5 No 4.

Kantor PF, et al. Circ Res. 2000 Mar 17;86(5):580-8.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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