LKT Laboratories, Inc.

Triacsin C

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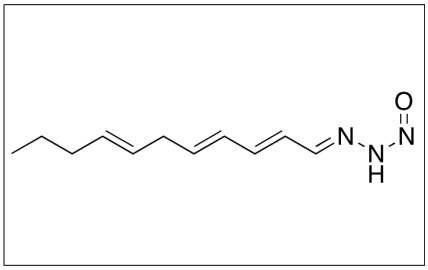
Product Information

Product ID T6834
CAS No. 76896-80-5
Chemical Name

Synonym

Formula $C_{11}H_{17}N_3O$
Formula Wt. 207.27
Melting Point 102-104°C
Purity ≥95%
Solubility



Bulk quanitites available upon request

Product ID	Size
T6834	1 mg
T6834	5 mg

Store Temp 4°C
Ship Temp Ambient
Description Triacsin C is a fungal metabolite that acts as a competitive inhibitor of acyl-CoA synthetase, preventing conversion of fatty acids to fatty acyl-CoA. Triacsin C inhibits synthesis of triacylglycerol (TAG), diacylglycerol (DAG), cholesterol esters, and phospholipids. Triacsin C increases NO synthesis and eNOS activity, inducing vasodilatory activity and enhancing relaxation of aortic rings.

References

Gauthier MS, Miyoshi H, Souza SC, et al. AMP-activated protein kinase is activated as a consequence of lipolysis in the adipocyte: potential mechanism and physiological relevance. J Biol Chem. 2008 Jun 13;283(24):16514-24. PMID: 18390901.

Weis MT, Crumley JL, Young LH, et al. Inhibiting long chain fatty Acyl CoA synthetase increases basal and agonist-stimulated NO synthesis in endothelium. Cardiovasc Res. 2004 Aug 1;63(2):338-46. PMID: 15249192.

Igal RA, Wang P, Coleman RA. Triacsin C blocks de novo synthesis of glycerolipids and cholesterol esters but not recycling of fatty acid into phospholipid: evidence for functionally separate pools of acyl-CoA. Biochem J. 1997 Jun 1;324 (Pt 2):529-34. PMID: 9182714.