



Product Information

Product ID L1884

CAS No. 141505-33-1

Chemical Name Mesoxalonitrile (-)-(p((R)-1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl)hydrazone

Synonym Simdax

Formula C₁₄H₁₂N₆O

Formula Wt. 280.28

Melting Point 210-214 °C

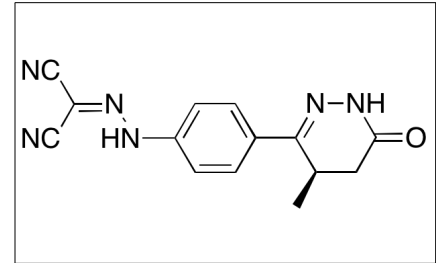
Purity ≥98%

Solubility Insoluble in water (0.04 mg/ml), soluble in DMSO (>50 mg/ml).

Store Temp 4 °C

Ship Temp Ambient

Description Levosimendan is a calcium sensitizer that stabilizes troponin C, activates ATP-sensitive K⁺ channels, and inhibits phosphodiesterases (PDEs). Levosimendan is clinically used to treat heart failure, as it improves cardiac performance and myocardial contractility without increasing oxygen consumption or decreasing preload or afterload. Levosimendan exhibits vasodilatory and cardioprotective activities, improving left ventricular function in animal models of myocardial ischemia/reperfusion.



Bulk quantities available upon request

Product ID	Size
L1884	100 mg
L1884	250 mg
L1884	1 g

References Pathak A, Lebrin M, Vaccaro A, et al. Pharmacology of levosimendan: inotropic, vasodilatory and cardioprotective effects. *J Clin Pharm Ther.* 2013 Oct;38(5):341-9. PMID: 23594161.

Malmberg M, Vähäsilta T, Saraste A, et al. Intracoronary Levosimendan during Ischemia Prevents Myocardial Apoptosis. *Front Physiol.* 2012 Feb 14;3:17. PMID: 22347864.

Papp Z, Édes I, Fruhwald S, et al. Levosimendan: molecular mechanisms and clinical implications: consensus of experts on the mechanisms of action of levosimendan. *Int J Cardiol.* 2012 Aug 23;159(2):82-7. PMID: 21784540.

Milligan DJ, Fields AM. Levosimendan: calcium sensitizer and inodilator. *Anesthesiol Clin.* 2010 Dec;28(4):753-60. PMID: 21074750.

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