

## Product Data Sheet

Product Name: Levosimendan

Cat. No.: GC15929

### Chemical Properties

Cas. No. 141505-33-1

Chemical Name 2-[[4-[(4R)-4-methyl-6-oxo-4,5-dihydro-1H-pyridazin-3-yl]phenyl]hydrazinylidene]propanedinitrile

SMILES CC1CC(=O)NN=C1C2=CC=C(C=C2)NN=C(C#N)C#N

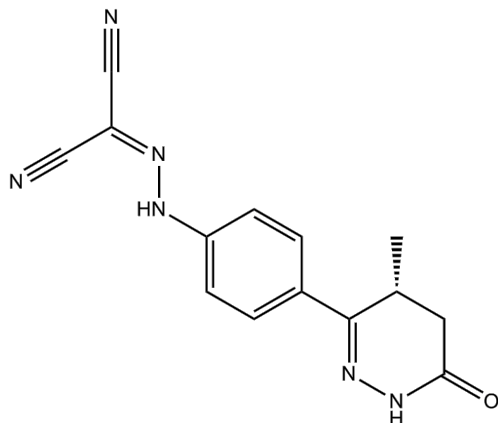
Formula  $C_{14}H_{12}N_6O$  M.Wt 280.28

Solubility  $\geq 9.75\text{mg/mL}$  in DMSO Storage Store at  $-20^{\circ}\text{C}$

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}\text{C}$  for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Levosimendan (OR1259) is a calcium sensitizer used in the management of acutely decompensated congestive heart failure.

Levosimendan (OR1259) is a calcium sensitizer used in the management of acutely decompensated congestive heart failure. Levosimendan (OR1259) is an inodilator indicated for the short-term treatment of acutely decompensated severe chronic heart failure, and in situations where

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

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conventional therapy is not considered adequate. Levosimendan (OR1259) has shown preliminary positive effects in a range of conditions requiring inotropic support, including right ventricular failure, cardiogenic shock, septic shock, and Takotsubo cardiomyopathy[1]. The cardiovascular effects of Levosimendan (OR1259) are exerted via more than an isolated drug-receptor interaction, and involve favorable energetic and neurohormonal changes that are unique in comparison to other types of inodilators[2]. Levosimendan (OR1259) might reduce mortality in cardiac surgery and cardiology settings of adult patients[3].

### References:

- [1]. Nieminen, M.S., et al., Levosimendan: current data, clinical use and future development. Heart Lung Vessel, 2013. 5(4): p. 227-245.
- [2]. Papp, Z., et al., Levosimendan: molecular mechanisms and clinical implications: consensus of experts on the mechanisms of action of levosimendan. Int J Cardiol, 2012. 159(2): p. 82-7.
- [3]. Landoni, G., et al., Effects of levosimendan on mortality and hospitalization. A meta-analysis of randomized controlled studies. Crit Care Med, 2012. 40(2): p. 634-46.

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