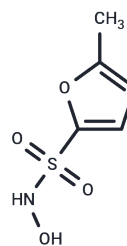


Cimlanod

Chemical Properties

CAS No. :	1620330-72-4
Formula:	C ₅ H ₇ NO ₄ S
Molecular Weight:	177.18
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cimlanod is a second-generation Nitroxyl (HNO) donor for heart failure with positive lusitropic and inotropic as well as vasodilatory effects. Cimlanod delivers HNO via pH-dependent chemical breakdown when exposed to the neutral pH environment of the bloodstream.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 125 mg/mL (705.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (18.63 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.644 mL	28.2199 mL	56.4398 mL
5 mM	1.1288 mL	5.644 mL	11.288 mL
10 mM	0.5644 mL	2.822 mL	5.644 mL
50 mM	0.1129 mL	0.5644 mL	1.1288 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Cowart D, et al. A Phase 1 Randomized Study of Single Intravenous Infusions of the Novel Nitroxyl Donor BMS-986231 in Healthy Volunteers. J Clin Pharmacol. 2019 May;59(5):717-730.

Felker GM, et al. Rationale and design for the development of a novel nitroxyl donor in patients with acute heart failure. Eur J Heart Fail. 2019 Aug;21(8):1022-1031.

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