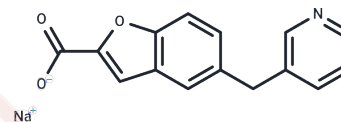


## Furegrelate sodium

## Chemical Properties

CAS No. :	85666-17-7
Formula:	C <sub>15</sub> H <sub>10</sub> NNaO <sub>3</sub>
Molecular Weight:	275.23
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	Furegrelate sodium (U-63557A) is a selective thromboxane synthase inhibitor with oral activity. Furegrelate sodium(U-63557A) inhibits thromboxane A <sub>2</sub> (TXA <sub>2</sub> ) synthase in human platelet microsomes with an IC <sub>50</sub> of 15 nM.
Targets(IC <sub>50</sub> )	Others,PPAR,Prostaglandin Receptor
In vivo	Furegrelate also is orally available, has a long half-life of 4.2-5.8 hours in adult humans (compared to several other therapies for PAH including nitric oxide and prostacyclin analogs), and reportedly is highly specific for its target enzyme.Furegrelate Sodium (1-5 mg/kg; Oral) prevents blockage of the coronary artery. Furegrelate Sodium (0.1-5 mg/kg; i.v.) prevents the blockage of stenosed coronary arteries caused platelet aggregation. Furegrelate Sodium blunts the development of hypoxia-induced pulmonary arterial hypertension (PAH) in an established neonatal piglet model primarily by preserving the structural integrity of the pulmonary vasculature.

## Solubility Information

Solubility	DMSO: 10 mg/mL (36.33 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: 1 mg/mL (3.63 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

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	1mg	5mg	10mg
1 mM	3.6333 mL	18.1666 mL	36.3332 mL
5 mM	0.7267 mL	3.6333 mL	7.2666 mL
10 mM	0.3633 mL	1.8167 mL	3.6333 mL
50 mM	0.0727 mL	0.3633 mL	0.7267 mL

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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

- Gorman RR, et al. Inhibition of platelet thromboxane A2 synthase activity by sodium 5-(3'-pyridinylmethyl) benzofuran-2-carboxylate. Prostaglandins. 1983 Aug;26(2):325-42.
- Hirenallur-S DK, et al. Furegrelate, a thromboxane synthase inhibitor, blunts the development of pulmonary arterial hypertension in neonatal piglets. Pulm Circ. 2012 Apr-Jun;2(2):193-200.

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