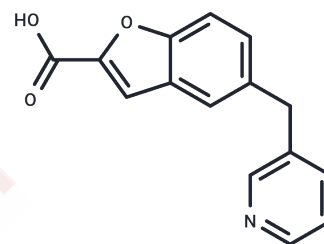


Furegrelate

Chemical Properties

CAS No. :	85666-24-6
Formula:	C ₁₅ H ₁₁ NO ₃
Molecular Weight:	253.25
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, a thromboxane A ₂ (TxA ₂) synthase inhibitor, blunts the development of pulmonary arterial hypertension in neonatal piglets.
Targets(IC50)	Others,PPAR,Prostaglandin Receptor
In vitro	A third group of piglets received FUREGRELATE (3 mg/kg, 2 or 3 times daily) at the induction of CH. In vivo hemodynamics confirmed a 2.55-fold increase of the pulmonary vascular resistance index (PVRI) in CH piglets (104±7 WU) compared to N piglets (40±2 WU). The CH piglets treated twice daily with FUREGRELATE failed to show improved PVRI, but FUREGRELATE three times daily lowered the elevated PVRI in CH piglets by 34% to 69±5 WU and ameliorated the development of right ventricular hypertrophy. Microfocal X-ray computed tomography (CT) scanning was used to estimate the diameter-independent distensibility term, α (% change in diameter per Torr). Pulmonary arterial distensibility in isolated lungs of CH piglets ($\alpha=1.0\pm0.1\%$ per Torr) was lower than that of N piglets ($\alpha=1.5\pm0.1\%$ per Torr) indicative of vascular remodeling. Arterial distensibility was partially restored in FUREGRELATE-treated CH piglets ($\alpha=1.2\pm0.1\%$ per Torr) and microscopic evidence showing muscularization of small pulmonary arteries also was less prominent in these animals. Finally, isolated lungs of FUREGRELATE-treated piglets showed lower basal and vasodilator-induced transpulmonary pressures compared to CH animals[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (197.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9487 mL	19.7433 mL	39.4867 mL
5 mM	0.7897 mL	3.9487 mL	7.8973 mL
10 mM	0.3949 mL	1.9743 mL	3.9487 mL
50 mM	0.079 mL	0.3949 mL	0.7897 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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