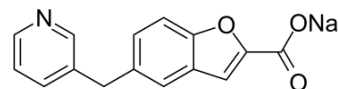


Furegrelate sodium

Cat. No.:	HY-106080A		
CAS No.:	85666-17-7		
Molecular Formula:	C ₁₅ H ₁₀ NNaO ₃		
Molecular Weight:	275.23		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

Furegrelate Sodium (U-63557A) is a potent, orally available, and selective **thromboxane synthase** inhibitor. Furegrelate Sodium inhibits human platelet microsomal thromboxane A₂ (TxA₂) synthase with an IC₅₀ of 15 nM. Furegrelate Sodium is being developed as an antiplatelet agent^{[1][2]}.

In Vivo

Furegrelate Sodium (U-63557A) (1-5 mg/kg; Oral) prevents blockage of the coronary artery^[1]. Furegrelate Sodium (0.1-5 mg/kg; i.v.) prevents the blockage of stenosed coronary arteries caused platelet aggregation^[1]. 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^[2]. 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^[2].

Animal Model:	Mongrel dogs (19-30 kg) ^[1]
Dosage:	1-5 mg/kg
Administration:	Oral (via a gastric tube)
Result:	Prevented blockage of the coronary artery.

REFERENCES

- [1]. 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.
- [2]. Hirehallur-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.

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

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