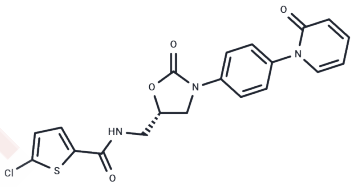
Data Sheet (Cat.No.T29215)

TargetMol

Zifaxaban

Chemical Properties



CAS No. : 1378266-98-8

Formula: C20H16ClN3O4S

Molecular Weight: 429.88

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	Zifaxaban (TY-602) is an orally active, competitive and selective inhibitor of factor Xa (FXa) with an IC50 of 11.1 nM for human FXa.Zifaxaban has a very high affinity, more than 10,000-fold higher than that of other serine proteases.Zifaxaban can be used to study arterial and venous thrombosis.
Targets(IC50)	Factor Xa
In vivo	Zifaxaban (rat venous thrombosis model) strongly inhibits thrombosis with an ED50 value of 3.09 mg/kg, with optimal efficacy occurring 2 hours after administration.[1] Zifaxaban inhibits thrombosis in a dose-dependent manner in rat arteriovenous shunt thrombosis and carotid artery thrombosis models.[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (139.57 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3262 mL	11.6312 mL	23.2623 mL
5 mM	0.4652 mL	2.3262 mL	4.6525 mL
10 mM	0.2326 mL	1.1631 mL	2.3262 mL
50 mM	0.0465 mL	0.2326 mL	0.4652 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

Qiu X, et al. Pre-clinical pharmacodynamic study of a novel oral factor Xa inhibitor zifaxaban. Eur J Pharmacol. 2018;836:50-56.

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