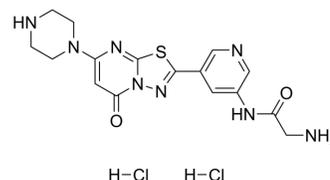


Zalunfiban dihydrochloride

Cat. No.:	HY-119350B
Molecular Formula:	C ₁₆ H ₂₀ Cl ₂ N ₈ O ₂ S
Molecular Weight:	459.35
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 6.67 mg/mL (14.52 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass 1 mg	5 mg	10 mg
		1 mM	2.1770 mL	10.8849 mL	21.7699 mL
		5 mM	0.4354 mL	2.1770 mL	4.3540 mL
		10 mM	0.2177 mL	1.0885 mL	2.1770 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.67 mg/mL (1.46 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.67 mg/mL (1.46 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.67 mg/mL (1.46 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Zalunfiban (RUC-4) dihydrochloride is a potent, selective platelet αIIbβ3 antagonist (IC ₅₀ =45 nM). Zalunfiban dihydrochloride can be used for the research of myocardial infarction (MI) ^[1] .
IC₅₀ & Target	IC ₅₀ : 45 nM (αIIbβ3) ^[1]
In Vivo	<p>Zalunfiban dihydrochloride (1~3.86 mg/kg; s.c.; 24 hours) makes platelet aggregation performed^[1].</p> <p>Zalunfiban dihydrochloride (1~3.86 mg/kg; i.m.; 4.5 hours) leads to the onset of high-grade inhibition of platelet aggregation within 15–30 minutes that lasts from ~2 to >4.5 hours in a dose dependent manner^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

Animal Model:	Cynomolgus Monkey
Dosage:	1~ 3.86 mg/kg (Pharmacokinetic Analysis)
Administration:	S.c.; 24 hours
Result:	Platelet aggregation was performed.

REFERENCES

[1]. Vootukuri S, et al. Preclinical Studies of RUC-4, a Novel Platelet α IIb β 3 Antagonist, in Non-Human Primates and With Human Platelets. J Clin Transl Sci. 2019;3(2-3):65-74.

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

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