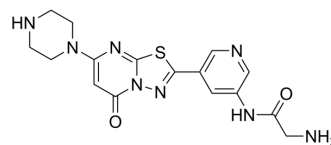


Zalunfiban

Cat. No.:	HY-119350
CAS No.:	1448313-27-6
Molecular Formula:	C ₁₆ H ₁₈ N ₈ O ₂ S
Molecular Weight:	386.43
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 17.86 mg/mL (46.22 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.5878 mL	12.9390 mL	25.8779 mL
		5 mM	0.5176 mL	2.5878 mL	5.1756 mL
	10 mM	0.2588 mL	1.2939 mL	2.5878 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.38 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.38 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.38 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Zalunfiban (RUC-4) is a potent, selective platelet αIIbβ3 antagonist (IC ₅₀ =45 nM). Zalunfiban can be used for the research of myocardial infarction (MI) ^[1] .
IC ₅₀ & Target	IC ₅₀ : 45 nM (αIIbβ3) ^[1]
In Vivo	Zalunfiban (1~3.86 mg/kg; s.c.; 24 hours) makes platelet aggregation performed ^[1] . Zalunfiban (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 lasted from ~2 to >4.5 hours in a dose dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA