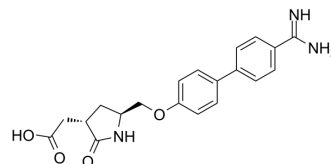


Fradafiban

Cat. No.:	HY-101720
CAS No.:	148396-36-5
Molecular Formula:	C ₂₀ H ₂₁ N ₃ O ₄
Molecular Weight:	367.4
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 180 mg/mL (489.93 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.7218 mL	13.6091 mL	27.2183 mL
		5 mM		0.5444 mL	2.7218 mL	5.4437 mL
		10 mM		0.2722 mL	1.3609 mL	2.7218 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: ≥ 2.25 mg/mL (6.12 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.25 mg/mL (6.12 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.25 mg/mL (6.12 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Fradafiban is a nonpeptide platelet glycoprotein IIb/IIIa antagonist, which binds to the human platelet GP IIb/IIIa complex with a K _d value of 148 nM.
IC ₅₀ & Target	Kd: 148 nM (human platelet GP IIb/IIIa complex) ^[1]
In Vitro	Fradafiban is a nonpeptide mimetic of the arginine-glycine-aspartic acid recognition sequence. Fradafiban binds with high affinity and selectivity to the human platelet GP IIb/IIIa complex and potently inhibits human platelet aggregation in vitro. Fradafiban reversibly binds to the human platelet GP IIb/IIIa complex with a K _d value of 148 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Fradafiban has only very limited oral activity probably due to its high polarity and thus poor absorption after oral ingestion [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Müller TH, et al. Profound and sustained inhibition of platelet aggregation by Fradafiban, a nonpeptide platelet glycoprotein IIb/IIIa antagonist, and its orally active prodrug, Lefradafiban, in men. *Circulation*. 1997 Aug 19;96(4):1130-8.

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

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