Data Sheet (Cat.No.TP1778)

TargetMol
A DRUG SCREENING EXPERT

Fibrinogen Binding Inhibitor Peptide

Chemical Properties

CAS No.:	89105-94-2
Formula:	C50H80N18O16
Molecular Weight:	1189.28
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Fibrinogen Binding Inhibitor Peptide, a synthetic dodecapeptide, represents the specific platelet receptor recognition site of the human fibrinogen g-chain (residues 400-411).
In vitro	Glycoprotein (GP) IIb/IIIa, which exists on the membrane of platelets, changes its form from ictive to active when platelets adhere to collagen exposed on sites of vascular injury. In the circulation, platelet aggregation is mediated by fibrinogen by bridging adjacent platelets through GPIIb/IIIa in an activation-dependent manner. A dodecapeptide HHLGGAKQAGDV (H12), corresponding to the fibrinogen γ-chain carboxy-termil sequence (γ400-411), is a specific binding site of the ligand for activated GPIIb/IIIa[1].

Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.841 mL	4.204 mL	8.408 mL
5 mM	0.168 mL	0.841 mL	1.682 mL
10 mM	0.084 mL	0.42 mL	0.841 mL
50 mM	0.017 mL	0.084 mL	0.168 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Okamura Y, et al. Release abilities of adenosine diphosphate from phospholipid vesicles with different membraneproperties and their hemostatic effects as a platelet substitute. J Control Release. 2010 Dec 20;148(3):373-9.

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