

coagulation factor II (thrombin) B chain fragment [Homo sapiens]

## Chemical Properties

CAS No. :

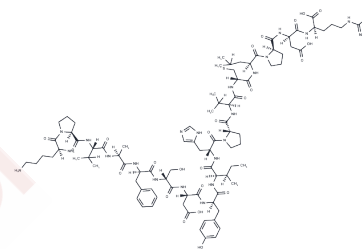
Formula: C90H137N23O24S

Molecular Weight: 1957.26

Keep away from moisture

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	Thrombin is a "trypsin-like" serine protease that is encoded by the F2 gene in humans. Thrombin is produced by the enzymatic cleavage of two sites on prothrombin by activated Factor X (Xa). Thrombin in turn acts as a serine protease that converts soluble fibrinogen into insoluble strands of fibrin. Thrombin is also active in the catalysis of many other coagulation-related reactions.
Targets(IC50)	Others
In vitro	Thrombin is implicated as a major factor in vasospasm following subarachnoid hemorrhage. Blood from a ruptured cerebral aneurysm clot around a cerebral artery, releasing thrombin. This can induce an acute and prolonged narrowing of the blood vessel, potentially resulting in cerebral ischemia and infarction (stroke). Beyond its key role in the dynamic process of thrombus formation, thrombin has a pronounced pro-inflammatory character, which may influence the onset and progression of atherosclerosis [2][3].

## Solubility Information

Solubility	DMSO: $\geq 195.7$ mg/mL, Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.5109 mL	2.5546 mL	5.1092 mL
5 mM	0.1022 mL	0.5109 mL	1.0218 mL
10 mM	0.0511 mL	0.2555 mL	0.5109 mL
50 mM	0.0102 mL	0.0511 mL	0.1022 mL

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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.

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