
Product Data Sheet

Product Name: Thrombin Human, HEK
Cat. No.: GP24825
Batch No.: 1

Product Data

Purity	>98%	Source	HEK
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Prothrombin; EC 3.4.21.5; Coagulation factor II; F2; PT; THPH1; RPRGL2.		
Formulation	The Thrombin solution contains 20mM MES, pH6.0 and 500mM Choline Chloride.		

Introduction

Thrombin enzyme (Activated Factor IIa) is an important clotting promoter that controls the transformation of soluble fibrinogen to insoluble active fibrin strands. Thrombin is a coagulation protein and a serine protease (EC 3.4.21.5) that catalyzes many coagulation-related reactions. Thrombin triggers factor-XI, factor-V, Factor-XIII and factor-VIII. Thrombin endorses platelet activation, using activation of protease-activated receptors on the platelet. As a result of its high proteolytic specificity, thrombin has become an important biochemical protein. The thrombin cleavage site (Leu-Val-Pro-Arg-Gly-Ser) is widely used in linker regions of recombinant fusion protein constructs. After the purification of the fusion protein, thrombin is used to cleave between the Arginine and Glycine residues of the cleavage site, efficiently removing the purification tag from the protein of interest with a high degree of specificity.

Biological Activity

5396 NIH Units/mg. The activity was determined in NIH units by comparing to Sigma's human plasma thrombin. Protein concentration was measured using E(0.1%)@280nm = 1.83.

Stability

Store frozen at -20°C to -80°C for long periods of time. Avoid multiple freeze-thaw cycles.

Background

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

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Recombinant Human Thrombin produced in HEK cells, having a total molecular weight of 36kDa. The Thrombin is purified by proprietary chromatographic techniques.

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