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32-5076: Recombinant Human Thrombin, HEK

Alternative Name : Prothrombin,EC 3.4.21.5,Coagulation factor II,F2,PT,THPH1,RPRGL2.

Description

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

Product Info

Amount :	50 µg
Content :	The Thrombin solution (1mg/ml) contains 20mM MES, pH6.0 and 500mM Choline Chloride.
Storage condition :	Store frozen at -20°C to -80°C for long periods of time. Avoid multiple freeze-thaw cycles.

Application Note

5396 NIH Units/mg. Protein concentration was measured using E(0.1%)@280nm = 1.83.