



Product Datasheet

Product Name Human Thrombin

Cata No CB500960

Source *Human Blood*

Synonyms

Description

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.

Physical Appearance

Sterile white lyophilized powder.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The protein (0.5mg/ml) was dialyzed against 5mM sodium citrate, 0.01% PEG, and 0.02M NaCl pH 6.5 before lyophilization.

Stability

Human Thrombin although stable at room temperature for 4°C, should be stored desiccated below -18°C.

Please prevent freeze-thaw cycles.