

Human Thrombin - Purified

Catalog No.:	AR10127PU-S
Quantity:	0.5 mg
Concentration:	0.5 mg/ml (prior to lyophil.)
Background:	<p>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.</p>
Species:	Human
Source:	Human Plasma
Format:	<p>State: Sterile white lyophilized powder. Purity: >95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Buffer System: The protein (0.5 mg/ml) was dialyzed against 5mM Sodium Citrate, 0.01% PEG, and 0.02M NaCl pH 6.5 before lyophilization.</p>
Description:	<p>Biological Activity: 2000IU/mg. Specific Activity: 2000IU/mg.</p>
Storage:	<p>Human Thrombin although stable at RT for 2-8°C, should be stored desiccated below -18°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.</p>