

F2

Native Human Alpha-Thrombin

Catalog No.	CRA161B CRA161C	Quantity:	1 mg 10 mg
Alternate Names:	Prothrombin, Coagulation factor II		
Description:	Human alpha-thrombin was prepared from purified prothrombin by activation with coastal taipan venom followed by affinity chromatography. <i>In vivo</i> , Thrombin is produced by the enzymatic cleavage of two sites on prothrombin by activated Factor X (Xa). Thrombin is a serine protease that converts soluble fibrinogen into insoluble strands of fibrin, as well as catalyzing many other coagulation-related reactions.		
UniProt ID:	P00734		
Gene ID:	2147		
Source:	Human plasma		
Molecular Weight:	36.7 kDa		
Formulation:	0.1M Tris-HCl, 0.15M NaCl, pH 7.4		
Purity:	> 95% by SDS-PAGE		
Concentration:	> 1 mg/ml, lot specific		
Extinction Coefficient:	$E^{0.1\%}_{280nm} = 1.83$		
Specific Activity:	>2000 NIH U/mg, determined by chromogenic substrate relative to human NIH standard thrombin		
Storage & Stability:	Store at -80°C. Upon initial thaw prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.		
Certification:	Purified from Human Plasma that was tested and found negative for HIV-1/2, HIV-1 antigen(s), HBsAg, STS, antiHCV, anti-HBcore and anti-HTLV I & II.		

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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com