

# Product Data Sheet



Product number **T222**  
Revision number **RN2.0**

<b>Product Name</b>	Human alpha Thrombin, recombinant
<b>Synonym</b>	Coagulation factor IIa, $\alpha$ Thrombin, fibrinogenase, thrombase, activated blood-coagulation factor II
<b>Source</b>	Full-length DNS sequence for hn thrombin, IMAGE clone 77998, produced serum-free in stable HEK293 cells, purified from culture supernatant. Generated by activation of recombinant human Prethrombin II (expressed in HEK293 cells) with Ecarin.
<b>aa-sequence</b>	TFGSGEADCG LRPLFEKKSL EDKTERELLE SYIDGRIVEG SDAEIGMSPW QVMLFRKSPQ ELLCGASLIS DRWVLTAHC LLYPPWDKNF TENDLLVRIG KHSRTRYERN IEKISMLEKI YIHPRYNWRE NLDRDIALMK LKKPVAFSDY IHPVCLPDRE TAASLLQAGY KGRVTGWGNL KETWTANVGK GQPSVLQVVN LPIVERPVCK DSTIRITDN MFCAGYKPDE GKRGDACEGD SGGPFVMKSP FNNRWYQMGI VSWGEGCDRD GKYGFYTHVF RLKKWIKVI DQFGE
<b>Application</b>	Coagulation research, medical research, protein-structure, sequence analysis, and biochemical research.
<b>Purification</b>	Heparin affinity chromatography
<b>Purity</b>	> 95 % reduced SDS-PAGE, MW 38 kDa
<b>Formulation</b>	Lyophilized from 20 mM TrisHCl, 150 mM NaCl, pH 7.2
<b>Appearance</b>	White lyophilized solid
<b>Reconstitution</b>	Add 0.2 mL of water.  After reconstitution the solution should be stored at -20°C in working aliquots. Avoid repeated freezing and thawing. Short time storage up to 48 h at 2-8°C is possible.
<b>Activity</b>	Tested in fibrinogen polymerisation and FXIII-Assay
<b>Size</b>	100 NIH Units
<b>Working dilutions</b>	Optimal dilutions should be determined by the end user.
<b>Storage</b>	-20°C  <b><i>Delivery at ambient temperature is possible</i></b>
<b>Related products</b>	T007 Coagulation Factor XIII, purified from human plasma T027 Human blood coagulation Factor XIII, recombinant T056 Human alpha thrombin, highly active
<b>Release date</b>	30 December 2021
<b>NOTE</b>	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.