

thrombin active protein

Thrombin, Bovine Plasma

CATALOG #
AAA11494

PRODUCT SYNONYMS

Thrombin; Bovine Plasma; Bovine - High Purity; thrombin active protein

PRODUCT SPECIFICATIONS

Form/Format	Lyophilized powder containing glycine and sodium chloride
Sequence Length	239
Source	Bovine Plasma
Moisture	< 2% (Loss on drying)
EC Number	3.4.21.5
Specific Activity	2,500 units/mg of protein
Protein	0.12% mg protein/mg solid (Biuret)
pH	6.7 (1% solution)
CAS Number	9002-04-4
Activity	290 units/mg solid (US/NIH coagulation units)
Appearance	White to off-white lyophilized powder.
Reconstitution	Reconstitute and dilute with 0.9% sodium chloride.
Preparation and Storage	At -20 degree C Protect from moisture.

ADDITIONAL INFORMATION

Related Product Information for thrombin active protein	We produce and supply high purity bovine Thrombin for medical research of proteolytic enzymes and manufacturing of defibrinating human plasma and serum free media component. Custom preparations, technical support, bulk quantities and aliquoting available. Our High Specific Activity Bovine Thrombin product is used to cleave r-fusion proteins containing a thrombin site for removal of affinity tags as well as certain pharmaceutical applications. Thrombin is a coagulation protein that has many effects in the coagulation cascade and is a serine protease that converts fibrinogen into fibrin. Bovine Thrombin used as a reagent, which has proven useful in the laboratory evaluation of many fibrinogens. Our customers use Thrombin to defibrinate human plasma, producing serum matrices to be used as controls and standards around the world. Thrombin promotes chemotaxis in monocytes, neurite retraction in neuron Thrombin serves as a potent mitogenic agent in fibroblast growth and functions as a serum-free media component for several cell lines. Bovine Thrombin is a multi-functional proteolytic enzyme which acts both specifically and non-specifically with several proteins, cells, surfaces, and other molecules. Bovine Thrombin has an essential role in the clotting process and has been well characterized where it converts fibrinogen, a soluble plasma glycoprotein, to an insoluble protein gel called fibrin, the essential component of the blood clot. Bovine Thrombin is a clotting enzyme that is a serine protease which cleaves Arginine-Glycine bonds in fibrinogen to give clots of fibrin & fibrinopeptide A and B. Bovine Thrombin is derived from bovine prothrombin which is isolated from bovine plasma. Bovine prothrombin is treated with bovine lung thromboplastin to yield Bovine Thrombin and is also used to remove GST tags from proteins in purification process.
Product Categories/Family for thrombin active protein	Proteins; Antigens; Enzymes; Standards/controls; Native Proteins; Thrombin

NCBI AND UNIPROT INFORMATION

NCBI GI #	213487
NCBI Official Full Name	thrombin, partial
UniProt Protein Name	Thrombin
UniProt Gene Name	thrombin
UniProt Entry Name	Q91218_ONCMY

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/active-protein/thrombin/11494>