



Recombinant Calloselasma rhodostoma Thrombin-like enzyme ancrod

Product Code	CSB-YP338742CBG
Relevance	Thrombin-like snake venom serine protease that acts as an anticoagulant. It cleaves fibrinogen (FGA) to split off the A-fibrinopeptides (A, AY and AP), but not the B-fibrinopeptide. The resulting fibrin polymers are imperfectly formed and much smaller in size (1 to 2 um long) than the fibrin polymers produced by the action of thrombin. These ancrod-induced microthrombi are friable, unstable, urea-soluble and have significantly degraded alpha chains. They do not cross-link to form thrombi. They are markedly susceptible to digestion by plasmin and are rapidly removed from circulation by either reticuloendothelial phagocytosis or normal fibrinolysis, or both. Anticoagulation through the removal of fibrinogen from the blood is rapid, occurring within hours following its administration. It does not activate plasminogen and does not degrade preformed, fully cross-linked thrombin fibrin. It also reduces the level of plasminogen activator inhibitor (PAI) and may stimulate the release of tissue plasminogen activator (PLAT) from the endothelium. The profibrinolytic effect of these 2 actions appears to be limited to local microthrombus degradation.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P26324
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Protein
Species	Calloselasma rhodostoma (Malayan pit viper) (Agkistrodon rhodostoma)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	VIGGDECNINEHRFLVAVYEGTNWTFICGGVLIHPEWVITAEHCARRRMNLFV GMHRKSEKFDDEQERYPKKRYFIRCNKTRTSWDEDIMLIRLNKPVNNSEHIAP LSLPSNPPIVGSDCRVMGWGSINRRIDVLSDEPRCANINLHNFTMCHGLFRKM PKKGRVLCAGDLRGRRDSCNSDSGGPLICNEELHGIVARGPNPCAQPKNPAL YTSIYDYRDWVNNVIAGNATCSP
Research Area	Others
Source	Yeast
Gene Names	N/A
Protein Names	Recommended name: Thrombin-like enzyme ancrod Short name= SVTLE EC= 3.4.21.74Alternative name(s): Fibrinogen-clotting enzyme Snake venom serine protease Short name= SVSP Venombin A
Expression Region	1-234aa


Notes

Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info

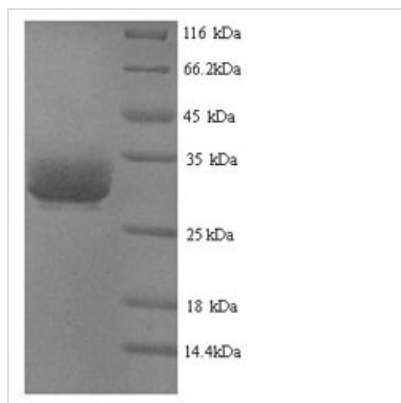
N-terminal 6xHis-tagged

Mol. Weight

28.6kDa

Protein Description

Full Length

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.