

OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-858-888-7900 Fax: +1-858-888-7904 <u>US-info@acris-antibodies.com</u>

AR03016PU-X OriGene EU

Acris Antibodies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

Porcine Thrombin - Purified Catalog No.: AR03016PU-X 2000 U **Quantity: Background:** 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 coagulationrelated 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. Porcine **Species:** Plasma, Porcine Blood Source: Format: State: Sterile Filtered White lyophilized (freeze-dried) powder Buffer System: 20mM PBS, pH 7.4 containing 0.9% NaCl **Reconstitution:** Reconstitute in 18MΩ-cm H2O. **Description:** Lyophilized Thrombin Biological Activity: One unit is defined as the amount of enzyme needed to cleave 1 mg of fusion protein in 16 hours to 95% completion at 20°C in a buffer containing 25 mM Tris-HCl, pH 8.4, 150 mM NaCl, and 2.5 mM CaCl2. The lyophilized protein can be stored at room temperature up to two weeks, and Storage: desiccated at -20 °C for longer. Following reconstitution it can be stored at 2-8 °C for up to to one week, and at -20 °C for longer. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid repeated freezing and thawing. Shelf life: one year from desatch.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



OG/20121030

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

1/1