

Product datasheet

# Natural mouse Factor Xa protein ab95261

**Overview**

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<b>Product name</b>	Natural mouse Factor Xa protein
<b>Protein length</b>	Full length protein

**Description**

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<b>Nature</b>	Native
<b>Source</b>	Native
<b>Amino Acid Sequence</b>	
<b>Species</b>	Mouse

**Specifications**

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Our [Abpromise guarantee](#) covers the use of **ab95261** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Biological activity** Activity is measured in a Factor Xa clotting assay and/or chromogenic substrate assay.

**Applications** Functional Studies  
SDS-PAGE

**Purity** > 95 % SDS-PAGE.  
ab95261 is prepared by activating purified factor X with the factor X activator isolated from Russell's viper venom. Factor Xa is purified from the activation mixture by chromatography over benzamidine-Sepharose. Purity is determined by SDS-PAGE analysis.

**Form** Liquid

**Preparation and Storage**

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**Stability and Storage** Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.  
Preservative: None  
Constituents: 50% Glycerol  
This product is an active protein and may elicit a biological response in vivo, handle with caution.

**General Info**

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**Function** Factor Xa is a vitamin K-dependent glycoprotein that converts prothrombin to thrombin in the presence of factor Va, calcium and phospholipid during blood clotting.

<b>Tissue specificity</b>	Plasma; synthesized in the liver.
<b>Sequence similarities</b>	Belongs to the peptidase S1 family. Contains 2 EGF-like domains. Contains 1 Gla (gamma-carboxy-glutamate) domain. Contains 1 peptidase S1 domain.
<b>Post-translational modifications</b>	The vitamin K-dependent, enzymatic carboxylation of some glutamate residues allows the modified protein to bind calcium. N- and O-glycosylated. The activation peptide is cleaved by factor IXa (in the intrinsic pathway), or by factor VIIa (in the extrinsic pathway). The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.
<b>Cellular localization</b>	Secreted.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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