

Product datasheet

Natural mouse Factor Xa protein ab95261

Overview

Product name	Natural mouse Factor Xa protein
Protein length	Full length protein

Description

Nature	Native
Source	Native

Amino Acid Sequence

Species	Mouse
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Specifications

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.
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Applications	Functional Studies SDS-PAGE
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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.
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Form	Liquid
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Preparation and Storage

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.
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General Info

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.
Tissue specificity	Plasma; synthesized in the liver.
Sequence similarities	Belongs to the peptidase S1 family. Contains 2 EGF-like domains. Contains 1 Gla (gamma-carboxy-glutamate) domain. Contains 1 peptidase S1 domain.
Post-translational modifications	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.
Cellular localization	Secreted.

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