

## **Native Bovine Factor X Activated (Xa)**

Cat. No. NATE-0250

Lot. No. (See product label)

## Introduction

**Description** Factor Xa catalyzes the hydrolysis of the Arg-Thr and then Arg-Ile bonds in prothrombin to yield active

thrombin. The fairly strict recognition sequence is Ile-Glu (or Asp)-Gly-Arg-↓-X. It may sometimes cleave at other basic residues, depending on the conformation of the target protein. Factor Xa will not cleave if

a proline residue follows the arginine of the recognition sequence.

**Applications** Fusion proteins are commonly expressed with a factor Xa cleavable Ile-Glu (or Asp)-Gly-Arg-↓-X

sequence. Typically 1 mg of fusion protein can be incubated with 10 µg of factor Xa for 2.5 hours at 37

oc.

**Synonyms** EC 3.4.21.6; 9002-05-5; thrombokinase; prothrombase; prothrombinase; activated blood-coagulation

factor X; autoprothrombin C; thromboplastin; plasma thromboplastin; factor Xa; activated Stuart-Prower

factor; activated factor X; coagulation factor Xa

## **Product Information**

**Species** Bovine

**Source** Bovine plasma

**Form** aqueous glycerol solution

37°C

**EC Number** EC 3.4.21.6

*CAS No.* 9002-05-5

**Optimum pH** 7.6-8.0

Optimum

temperature

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Pathway Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades, organism-

specific biosystem; Extrinsic Pathway, organism-specific biosystem

Function calcium ion binding; phospholipid binding; serine-type endopeptidase activity

Unit One unit of activated Factor X will liberate 1.0 μmole of p-nitroanilide from N-benzoyl-L-isoleucyl-L-

**Definition** glutamyl-L-glycyl-L-arginine-p-nitroaniline per minute at pH 8.3 at 37°C.

## Storage and Shipping Information

*Storage* −20°C

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