

Bovine Factor Va

Product No. ADG457

Description

Factor Va is a cofactor for the serine protease factor Xa, and in the presence of calcium ions they collectively assemble on a phospholipid surface to form the prothrombinase complex. The prothrombinase complex is responsible for the rapid conversion of prothrombin to thrombin. Factor Va is derived from the pro-cofactor, factor V, upon limited proteolysis by alpha-thrombin.

Factor Va is prepared by activating purified bovine factor V with thrombin and is subsequently purified by immunoaffinity chromatography.

Presentation

1 vial containing 100 µg of protein in a 50% glycerol/H₂O/ 5 mM Calcium Chloride (vol/vol).

Storage and Stability

Store frozen at -20°C. Do **not** subject to freeze-thaw cycles! Spin briefly before opening

Properties

The thrombin cleavage of factor V liberates two heavily glycosylated activation peptides from the central portion of the molecule which have no cofactor function. Factor Va is comprised of an NH₂-terminal derived heavy chain (94 kDa) and a COOH-terminal derived light chain (74 kDa) which remain associated in the presence of calcium ions.

Molecular weight: 168,000 Da
Purity: >95%
Extinction coefficient: 17.4
Concentration: see vial label
Specific activity*: see vial label

* Specific activity is determined by Factor V clotting assay (PT). One unit of activity is equivalent to the factor V activity in one milliliter of normal plasma

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Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

For research use only!

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