

Human blood coagulation Factor XIII B subunit

Product No. ADG425

Description

Human Factor XIII B subunit (hFXIII B) was recombinantly produced in insect cells. Human Factor XIII B subunit is a carrier protein for blood coagulation Factor XIII A subunit. Factor XIII B subunit is a typical mosaic protein and consists of 10 tandem repeats, called "sushi"-domains. Its function is to protect Factor XIII A subunit from slow spontaneous activation and clearance.

Synonym

Recombinant Fibrin stabilizing factor B subunit

Purity > 95% [by SDS-PAGE]

Molecular Weight 80 kDa (monomer)

Application

Factor XIII B subunit is a carrier protein. The recombinantly expressed protein is able to form a heterotetrameric complex with recombinant Factor XIII A from human, as well as the analogous proteins from pig, dog, mouse, and rat ⁽²⁾. Accordingly, the protein may be used for biochemical studies understanding the physiological function of FXIII, for example determination of the binding constant between Factor XIII A and B subunit ⁽³⁾.

Presentation

200 µg of the recombinant human Factor XIII B subunit is lyophilized from 20 mM Tris-HCl pH 7.5, 150 mM NaCl, 1 mM EDTA.

Reconstitution

Add the volume of water specified in the certificate of analysis under aliquotation to the vial of lyophilized powder. Rotate vial gently until solid dissolves. After reconstitution the solution should be stored frozen in working aliquots. For short term storage keep cooled on ice.

Storage

Store at -20 °C in working aliquots. Repeated freezing and thawing is not recommended.

Delivery at ambient temperature is possible

References

1. Novel insights into structure and function of factor XIIIa-inhibitor tridegin. Böhm M et al. J Med Chem. 2014 Dec 26;57(24):10355-65.
2. Differences in the inhibition of coagulation factor XIII-A from animal species revealed by Michael Acceptor- and thioimidazol based blockers. Heil A et al. Thromb Res. 2013 May;131(5):e214-22.
3. Interaction of factor XIII subunits. Katona E et al. Blood. 2014 Mar 13;123(11):1757-63.

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

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