

Product number **T050**  
Revision number **RN3.0**

**Product Name** Human blood coagulation Factor XIII B subunit (hFXIII B)

**Synonym** Recombinant Fibrin stabilizing factor B subunit

**Source** Recombinantly produced in insect cells

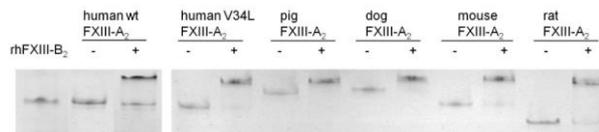
**Quantity** 200 µg

**Purity** > 95% [by SDS-PAGE]

**Molecular Weight** 80 kDa (monomer)

**Description** Recombinant 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.

**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 as shown by native PAGE below (Heil et al., 2013). 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 (Katona et al., 2014).



**Reagents** The recombinant human Factor XIII B subunit is lyophilized from 20 mM Tris-HCl pH 6.8, 150 mM NaCl, 1 mM EDTA.

**Appearance** White lyophilized solid.

**Reconstitution** Add the volume of H<sub>2</sub>O the protein is lyophilized from (see Certificate of Analysis) to the vial of lyophilized powder. Rotate vial gently until solid dissolves. After reconstitution, the solution should be stored frozen in working aliquots. Keep cooled on ice for short term storage.

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

***Delivery is possible at ambient temperature***

**Related products**

- T027 Human blood coagulation Factor XIII, recombinant (hFXIII, A subunit)
- T007 Coagulation factor XIII, purified from human plasma
- A101 FXIII-Assay Substance, Abz-NE(CAD-DNP)EQVSPLTLK-OH
- F001 FXIII-Assay Kit
- K003 K9-DON
- A016 Polyclonal antibody to human blood coagulation factor XIII (A-subunit)

**Reference(s)** Böhm et al., J. Med. Chem. 2014, 57:10355-65; Heil et al., Thromb. Res., 2013, 131, e214–e22; Katona et al., Blood, 2014, 123, 1757-63

**Release date** 23 December 2021

**NOTE** INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.