

Active Recombinant Human Fibroblast Growth Factor Binding Protein 1, His-tagged

Cat. No. FGFBP1-548H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGFBP1 protein was expressed in Murine myeloma cell line with a C-terminal 10-His tag. Lys24-Cys234 & Asn29-Cys234.
Species	Human
Source	Mammalian Cells
Protein Length	24-234; 29-234 a.a.
Description	Fibroblast growth factor binding protein (FGFBP1), also known as HBP17, is a secreted glycoprotein that increases the bioavailability of FGFs. Mature FGFBP1 is a 34 kDa, 211 amino acids (aa) O-glycosylated protein with five conserved intrachain disulfide bonds. FGFBP1 contains a heparin binding domain (aa 110-143) and a distinct FGF binding region (aa 193-243). Mature human FGFBP1 shares 59% and 54% aa sequence identity with mouse and rat FGFBP1, respectively. FGFBP1 is expressed throughout development and in adult squamous epithelium.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Lys24 & Asn29
Molecular Weight	25.2 kDa & 24.6 kDa
Activity	Measured by its binding ability in a functional ELISA. 1 µg/mL of rhFGFBP1 was

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mixed with serially diluted rhFGF basic. Following incubation, the FGFBP-FGF basic complex was captured on a Gt x hFGFBP-coated plate. Bound FGF basic was measured using biotinylated Gt x hFGF basic. The concentration of rhFGF basic that produces 50% of the optimal binding was found to be approximately 5-20 ng/mL.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

SDS-PAGE 31-35 kDa, reducing conditions

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution Reconstitute at 100 µg/mL in sterile PBS

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name FGFBP1 fibroblast growth factor binding protein 1 [Homo sapiens]

Official Symbol FGFBP1

Synonyms FGFBP1; fibroblast growth factor binding protein 1; FGFBP; HBP17; FGF-BP; FGF-BP1; FGFBP-1; FGF-binding protein 1; 17 kDa heparin-binding growth factor-binding protein; 17 kDa HBGF-binding protein; heparin-binding growth factor binding protein

Gene ID 9982

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mRNA Refseq	NM_005130
Protein Refseq	NP_005121
MIM	607737
UniProt ID	Q14512
Chromosome Location	4p15.32
Function	fibroblast growthfactor binding; heparin binding; protein binding

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