FGFBP3 Protein, Human (sf9, His)

Cat. No.:	HY-P76926
Synonyms:	Fibroblast growth factor-binding protein 3; FGF-BP3; C10orf13
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8TAT2 (M1-G258)
Gene ID:	143282
Molecular Weight:	Approximately 33 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	FGFBP3 Protein, identified as a heparin-binding protein, intricately regulates the dynamics of fibroblast growth factor 2 (FGF2). This versatile protein forms a binding complex with FGF2, simultaneously impeding its binding to heparin and likely hindering the immobilization of FGF2 on extracellular matrix glycosaminoglycans. This dual mechanism facilitates the liberation of FGF2, enabling its release and subsequent initiation of fibroblast growth factor receptor (FGFR) signaling. The downstream activation of FGFR signaling orchestrated by FGFBP3 Protein is implicated in the augmentation of vascular permeability. Importantly, the direct interaction between FGFBP3 Protein and FGF2 underscores the pivotal role of this protein in orchestrating these intricate cellular processes.

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