



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human FGFBP1 Protein
Catalog Number: hRP-1178
Manufacturer: LD Biopharma, Inc.

Introduction

Human Fibroblast growth factor-binding protein 1 (FGFBP1) gene encodes a secreted fibroblast growth factor carrier protein. The encoded protein plays a critical role in cell proliferation, differentiation and migration by binding to fibroblast growth factors and potentiating their biological effects on target cells. The encoded protein may also play a role in tumor growth as an angiogenic switch molecule, and expression of this gene has been associated with several types of cancer including pancreatic and colorectal adenocarcinoma.

Full-length mature protein of human FGFBP1 cDNA (24 – 234 aa, derived from BC008910) was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. This protein is expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: FGFBP1 (FGF-BP; FGF-BP1; HBP17)
Accession Number: NP_005121
Species: Human
Size: 50 µg / Vial
Composition: 0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Tomaszewski, M., *Pathway analysis shows association between FGFBP1 and hypertension*. J. Am. Soc. Nephrol. 22 (5), 947-955 (2011)



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Hoppman,N., et al., *A common variant in fibroblast growth factor binding protein 1 (FGFBP1) is associated with bone mineral density and influences gene expression in vitro*. Bone 47 (2), 272-280 (2010)

Zheng,H.Q., et al., *Kruppel-like factor 5 promotes breast cell proliferation partially through upregulating the transcription of fibroblast growth factor binding protein 1*. Oncogene 28 (42), 3702-3713 (2009)

Applications

1. May be used for in vitro FGFBP1 protein mediated tumor endothelial cell differentiation regulation study with this protein as either coating matrix protein or as soluble factor.
2. May be used for FGFBP1 protein – protein interaction assay.
3. May be used as enzymatic substrate for various proteases.
4. May be used for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHENLYFQGGEFKKKVKNGHLHASKVVSEQKDTLGNTQIKQKSRPGNKG
KFVTKDQANCRWAATEQEEGISLKVECTQLDHEFSCVFAGNPTSCCLKLKDERSVYWKQVARNLRS
QKDICRYSKTAVKTRVCRKDFPESSLKLVSSSTLFGNTKPRKEKTEMSPREHIK GKETTPSSLAV
TQTMATKAPECVEDPDMANQRKTALEFCGETWSSSLCTFFLSIVQDTSC