Human FGFBP3 Protein (His Tag)

Catalog Number: **10986-H08B**

General Information

Gene Name Synonym:

C10orf13; FGF-BP3

Protein Construction:

A DNA sequence encoding the human FGFBP3 (Met 1-Gly 258) (Q8TAT2) was expressed, with a C-terminal polyhistidine tag.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 87 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Arg 27

Molecular Mass:

The secreted recombinant human FGFBP3 consists of 243 amino acids and predicts a molecular mass of 26.4 KDa. The apparent molecular mass of the protein is approximately 33 Kda in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% gly, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

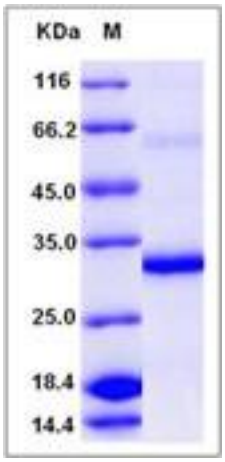
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

FGFBP3 is a member of the fibroblast growth factor-binding protein family. Members of this family binds and activates FGF-1 and FGF-2, thereby contributing to tumor angiogenesis. Fibroblast growth factors (FGFs) are important regulators of cell migration, proliferation and differentiation, e.g., during embryogenesis and wound healing, and under several pathological conditions including tumor growth and tumor angiogenesis. Expression of FGF-BP increases after injury to murine and human skin, in particular in keratinocytes. This upregulation is most likely achieved by major keratinocyte mitogens present at the wound site. FGFBP3 is a positive regulator of fibroblast growth factor receptor signaling pathway and vascular permeability. It interacts with 2,3,7,8-tetrachlorodibenzodioxine, benzopyrene and valproic acid. FGFBP3 also exhibits fibroblast growth factor binding (orthology) and heparin binding (orthology).

References

1.Abuharbeid S, *et al*. (2006) The fibroblast growth factor-binding protein FGF-BP. Int J Biochem Cell Biol. 38(9):1463-8. 2.Lange LG, *et al*. (1976) Human liver alcohol dehydrogenase: purification, composition, and catalytic features. Biochemistry. 15(21):4687-93. 3.Czubayko F, *et al*. (1997) A secreted FGF-binding protein can serve as the angiogenic switch in human cancer. Nat Med. 3(10):1137-40.