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Datasheet for ABIN7199531
FGF10 Protein (His-Avi Tag,Biotin)

Overview

Quantity:	200 µg
Target:	FGF10
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGF10 protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Human FGF-10 / KGF 2 Protein, His,Avitag™ (SPR verified)
Sequence:	Gln 38 - Ser 208
Characteristics:	Biotinylated Human FGF-10, His,Avitag is expressed from E.coli cells. It contains AA Gln 38 - Ser 208 (Accession # O15520-1).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	SPR verified

Target Details

Target:	FGF10
Alternative Name:	FGF-10 / KGF 2 (FGF10 Products)
Background:	Synonyms: FGF-10,Fibroblast growth factor 10,Keratinocyte growth factor 2,

Target Details

Fibroblast Growth Factor 10 (FGF 10) is an evolutionary conserved secreted growth factor mediating mostly mesenchymal to epithelial signaling. FGF 10 belongs to the FGF 7 subfamily and shares similar biochemical and amino acid sequences with its constituent members (FGF3, FGF 7 and FGF 22). As a paracrine FGF, FGF 10 elicits its biological responses by activating the fibroblast growth factor receptor 2b (FGF R 2b), is crucial for governing proximal distal outgrowth as well as patterning and acts upstream of the known apical ectodermal ridge (AER) marker FGF 8. FGF10 is also implicated in pancreatic cancer, and that overexpression of FGFR2b is associated with metastatic invasion.

Molecular Weight: 22.9 kDa

NCBI Accession: [NP_004456](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Stem Cell Maintenance](#), [Tube Formation](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

Application Details

Application Notes: This protein carries a polyhistidine tag at the N-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 22.9 kDa. The protein migrates as 27 kDa under reducing (R) condition due to glycosylation.

Comment: Ready-to-use Avitag™ biotinylated protein:
The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Handling

Buffer: PBS, 1 mM TCEP, 0.5 M Arginine, pH 7.4

Storage: -20 °C

Storage Comment: -20°C