

Datasheet for ABIN7274615
FGF10 Protein (AA 38-208) (Biotin)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	FGF10
Protein Characteristics:	AA 38-208
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGF10 protein is labelled with Biotin.

Product Details

Purpose:	Biotinylated Human FGF10 Protein (Primary Amine Labeling)
Sequence:	Gln38-Ser208
Characteristics:	Recombinant Biotinylated Human FGF10 Protein (Primary Amine Labeling) is expressed from E.coli without tag.It contains Gln38-Ser208.
Purity:	> 90 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 147.70 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

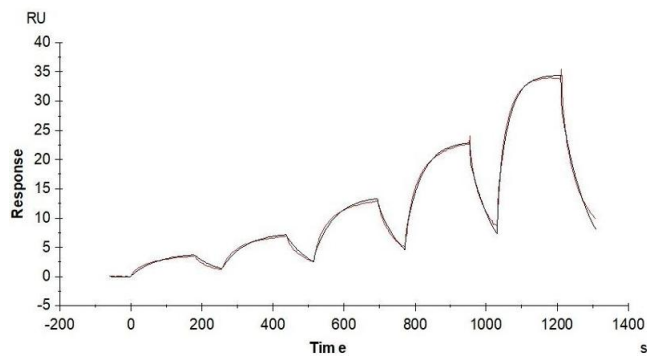
Target:	FGF10
Alternative Name:	FGF10 (FGF10 Products)
Background:	Fibroblast growth factor 10 (FGF10) regulates multiple stages of structural lung morphogenesis, cellular differentiation, and the response to injury. As a driver of lung airway branching morphogenesis, FGF10 signaling defects during development lead to neonatal lung disease. Lung diseases impact patients across the lifespan, from infants in the first minutes of life through the aged population. Congenital abnormalities of lung structure can cause lung disease at birth or make adults more susceptible to chronic disease.
Molecular Weight:	19.3 kDa same as Tris-Bis PAGE result.
UniProt:	O15520
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

Restrictions:	For Research Use only
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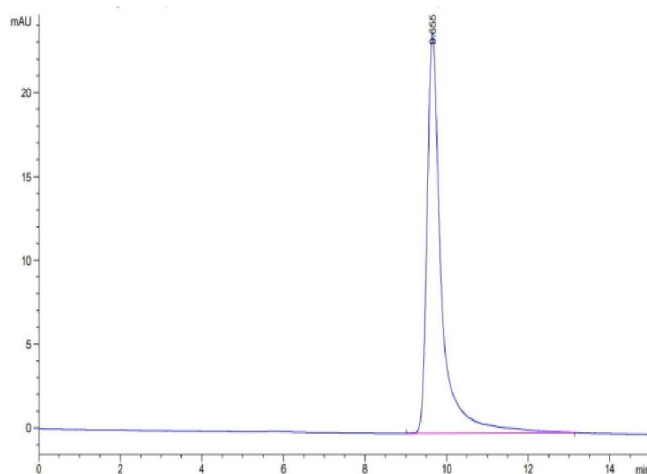
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in 20 mM Tris,150 mM NaCl (pH 8.0). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



Surface Plasmon Resonance

Image 1. Biotinylated Human FGF10, No tag immobilized on CM5 Chip can bind Human FGFR2 alpha IIIb, His tag with an affinity constant of 147.70 nM as determined in SPR assay (Biacore T200).

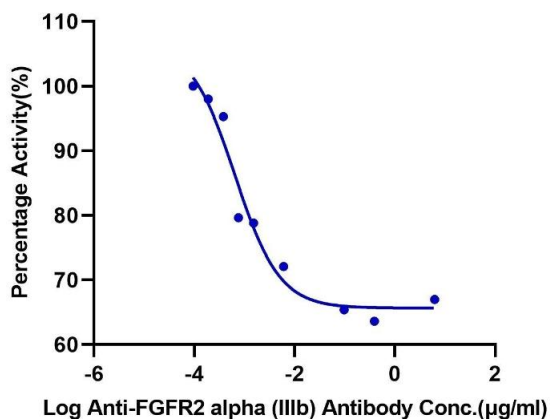


Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Biotinylated Human FGF10 is greater than 95 % as determined by SEC-HPLC.

Inhibition of Human FGFR2 alpha (IIIb) and FGF10 Binding

0.05µg Human FGFR2 alpha (IIIb), His Tag Per Well



Binding Studies

Image 3. Serial dilutions of Anti-FGFR2 alpha (IIIb) Antibody were added into Human FGFR2 alpha (IIIb), His Tag : Biotinylated Human FGF10, No Tag binding reactions. The half maximal inhibitory concentration (IC₅₀) is 0.7 ng/mL.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274615.