Datasheet for ABIN7274614

FGF10 Protein

2 Images

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Overview

Quantity:	100 µg
Target:	FGF10
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence:	Gln38-Ser208
Purity:	> 90% as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.299 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	FGF10
Alternative Name:	FGF10 (FGF10 Products)
Background:	FGF-10, KGF2,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

Target Details

	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. The protein migrates to 25 kDa based on 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

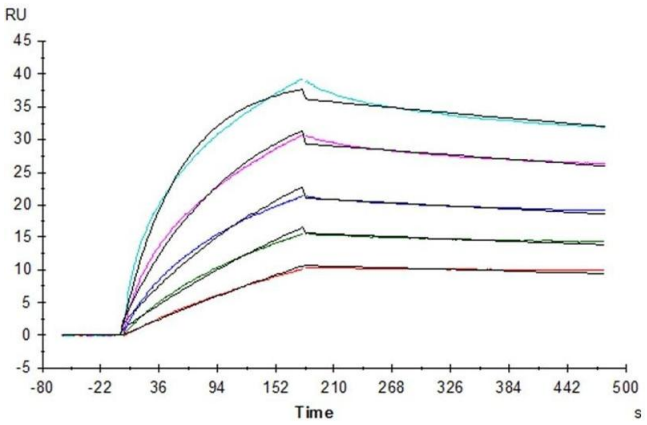
Application Details

Restrictions:	For Research Use only

Handling

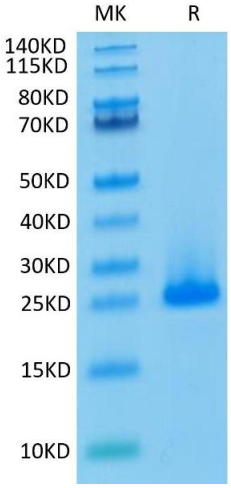
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in 20 mM Tris, 150 mM NaCl (pH 8.0). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Surface Plasmon Resonance

Image 1. Human FGF10, No Tag immobilized on CM5 Chip can bind Human FGFR2 beta (IIIb), hFc Tag with an affinity constant of 0.299 nM as determined in SPR assay (Biacore T200).



SDS-PAGE

Image 2. Human FGF10 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .