Biotinylated Human FGF10 Protein (Primary Amine Labeling)





Description	
Source	Recombinant Biotinylated Human FGF10 Protein (Primary Amine Labeling) is expressed from E.coli without tag.
	It contains Gln38-Ser208.
Accession	O15520
Molecular Weight	The protein has a predicted MW of 19.3 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
	>95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in 20mM Tris,150mM NaCl (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storogo	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend

Background

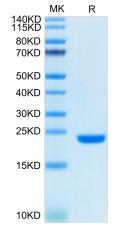
Storage

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.

to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

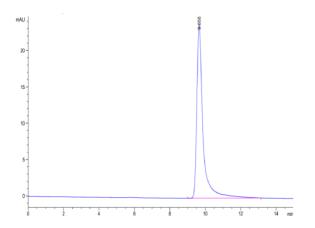
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



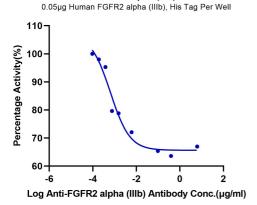
The purity of Biotinylated Human FGF10 is greater than 95% as determined by SEC-HPLC.



Assay Data

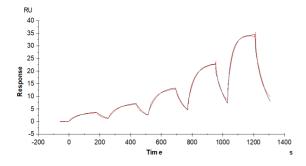
Blocking Data

Inhibition of Human FGFR2 alpha (IIIb) and FGF10 Binding



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

SPR Data



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) (QC Test).