Biotinylated Human FGF10 Protein (Primary Amine Labeling)

Cat. No. FGF-HE010B

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 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

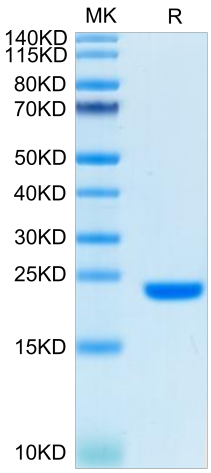
Formulation	Supplied as 0.22μm filtered solution in PBS, 200mM L-arginine (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

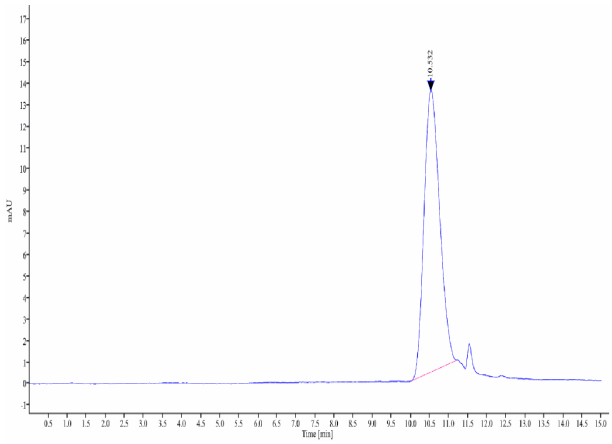
Assay Data

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.

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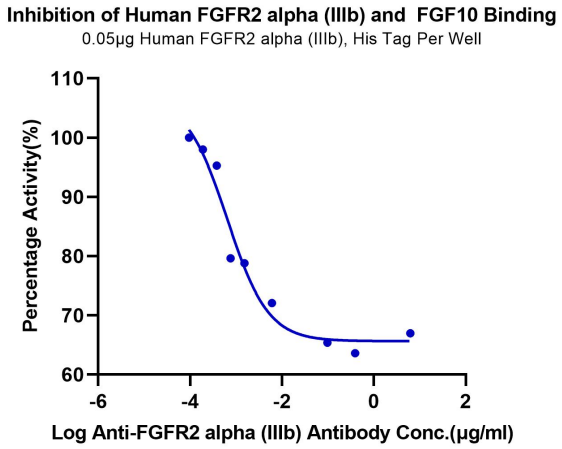
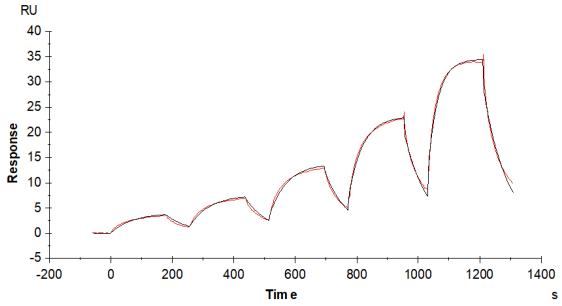
Assay Data

Blocking Data



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).