Human FGF10 Protein

Cat. No. FGF-HE010

Description

Source	Recombinant Human FGF10 Protein 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. The protein migrates to 25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1EU per μg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE

Formulation and Storage

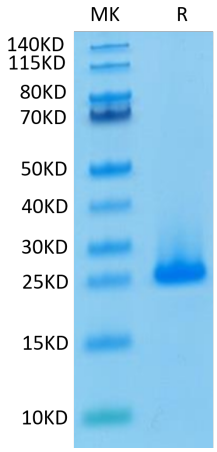
Formulation	Lyophilized from 0.22μm filtered solution in 20mM Tris, 150mM NaCl (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized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

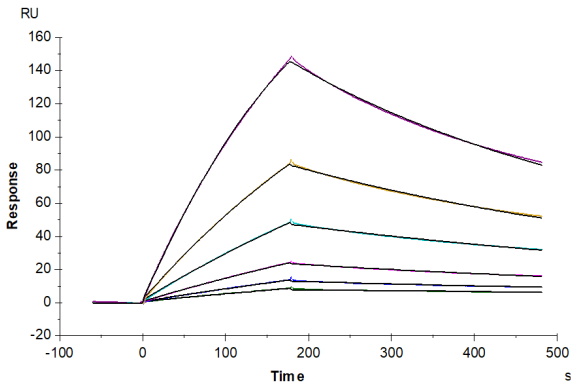
Assay Data

Bis-Tris PAGE



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

SPR Data



Human FGF10, No Tag immobilized on CM5 Chip can bind Human FGFR2 beta (IIIb), hFc Tag with an affinity constant of 8.43 nM as determined in SPR assay (Biacore T200).