

Human FGF8b Protein

Cat. No. FGF-HE08B

Description

Source	Recombinant Human FGF8b Protein is expressed from E.coli without tag. It contains Gln23-Arg215.
Accession	P55075-3
Molecular Weight	The protein has a predicted MW of 22.39 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

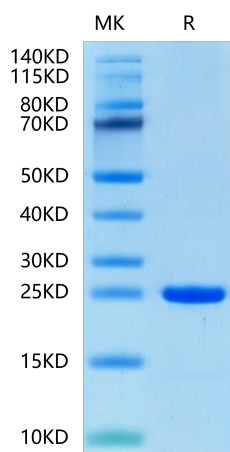
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM Tris, 300mM NaCl (pH 8.5). Normally 8% mannitol or 15% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve 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

Two of the four human FGF8 splice isoforms, FGF8a and FGF8b, are expressed in the mid-hindbrain region during development. Although the only difference between these isoforms is the presence of an additional 11 amino acids at the N terminus of FGF8b, these isoforms possess remarkably different abilities to pattern the midbrain and anterior hindbrain.

Assay Data

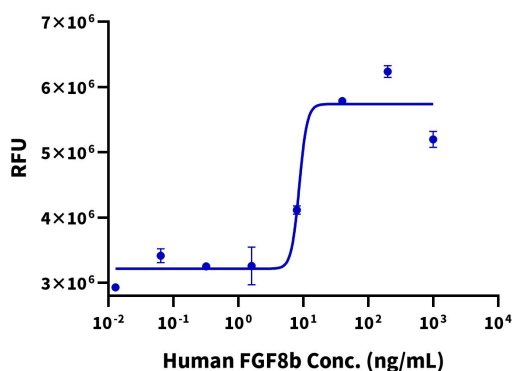
Bis-Tris PAGE



Human FGF8b on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

Cell Based Assay

Recombinant Human FGF8b Bioactivity



Measured in a cell proliferation assay using Balb/c 3T3 mouse fibroblasts. The ED50 for this effect is 5-20 ng/mL.