

# Human FGF8b Protein

Cat. No. FGF-HE08B

## Description

<b>Source</b>	Recombinant Human FGF8b Protein is expressed from E.coli without tag. It contains Gln23-Arg215.
<b>Accession</b>	P55075-3
<b>Molecular Weight</b>	The protein has a predicted MW of 22.39 kDa same as Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

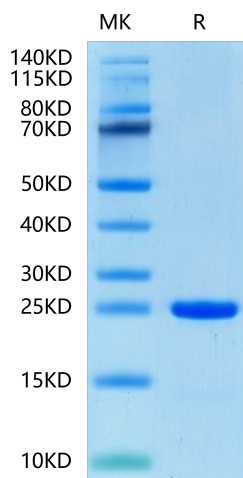
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in 20mM Tris, 300mM NaCl (pH 8.5). Normally 8% mannitol is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days 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

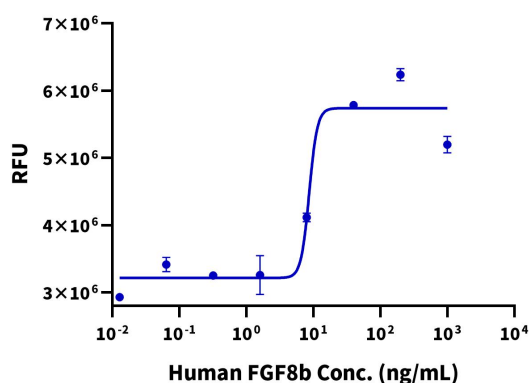
### Tris-Bis PAGE



Human FGF8b on Tris-Bis 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.