

# Recombinant Human/Mouse FGF-8B Protein

Catalog No.: RP01659 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human/Mouse	2253□B	P55075-3

**Tags**  
C-6His

### Synonyms

HH6; AIGF; KAL6; FGF-8; HBGF-8; FGF8B

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

**Endotoxin**  
<0.1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

In mammalian embryos, transient Fgf8 expression defines the developing isthmic region, lying between the midbrain and the first rhombomere, but there has been uncertainty about the existence of a distinct isthmic segment in postnatal mammals. Retinoic acid (RA) directly represses Fgf8 through a RARE-mediated mechanism that promotes repressive chromatin, thus providing valuable insight into the mechanism of RA-FGF antagonism during progenitor cell differentiation. Fgf8 encodes a key signaling factor, and its precise regulation is essential for embryo patterning.

## Basic Information

### Description

Recombinant Human/Mouse FGF-8B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln23-Arg215) of human FGF-8B (Accession #NP\_006110.1) fused with and a 6xHis tag at the C-terminus.

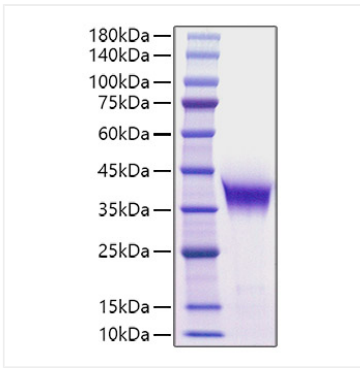
### Bio-Activity

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human FGF-8B Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-45 kDa.