

# Recombinant Mouse FGF-6 Protein

Catalog No.: RP01860 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14177	P21658

**Tags**  
No-Tag

### Synonyms

Fgf6; Fgf-6; Hstf2; Fibroblast growth factor 6; FGF-6; Heparin secretory-transforming protein 2; HST-2; HSTF-2; Heparin-binding growth factor 6; HBGF-6.

## Product Information

Source	Purification
<i>E.coli</i>	

Calculated MW	Observed MW
18.93 kDa	20-25 kDa

**Endotoxin**  
<1EU/μg of the protein by LAL method.


**Formulation**  
Lyophilized from a 0.22 μm filtered solution of 20 mM PB, 800 mM NaCl, pH7.4.

**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

FGF-6 is a member of the large and diverse fibroblast growth factor (FGF) family of peptide growth factors. FGF-6 binds to receptor FGFR4 and functions as a signaling molecule that is involved in many important processes. The mouse homolog of this gene exhibits predominantly in the myogenic lineage which suggests a role in muscle regeneration or differentiation. FGF-6 was able to transform NIH/3T3 cells and the resulting transformant formed a well-vascularized tumor in nude mice, thus suggesting an angiogenic property similar to some other members of the FGF family.

## Basic Information

### Description

Recombinant Mouse FGF-6 Protein is produced by *E.coli* expression system. The target protein is expressed with sequence (Ser38-Ile208) of Mouse FGF-6 (Accession #NP\_034334.1) fused with No-Tag.

### Bio-Activity

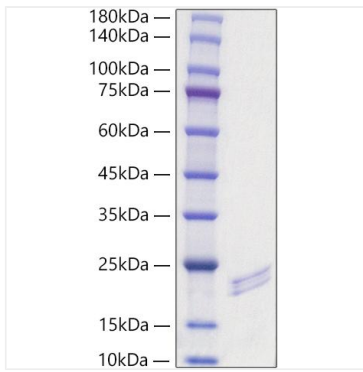
Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED<sub>50</sub> for this effect is 0.52-2.06 ng/mL, corresponding to a specific activity of 4.85×10<sup>5</sup>~1.92×10<sup>6</sup> units/mg.

### Storage

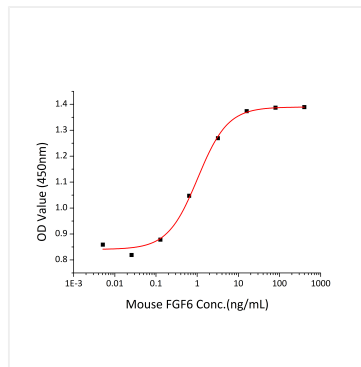
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Mouse FGF-6 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-25 kDa.



Recombinant Mouse FGF-6 stimulates cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED<sub>50</sub> for this effect is 0.52-2.06 ng/mL, corresponding to a specific activity of  $4.85 \times 10^5$ ~ $1.92 \times 10^6$  units/mg.