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# Human FGF-6 Recombinant Protein

25 µg

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**For Research Use Only. Not for Use in Diagnostic Procedures.****MW (kDa):**  
18.9**UniProt ID:**  
#P10767**Entrez-Gene Id:**  
2251

## 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 (1,2). The mouse homolog of this gene exhibits predominantly in the myogenic lineage which suggests a role in muscle regeneration or differentiation (3,4). 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 (4).

## Endotoxin

Endotoxin levels are less than or equal to 1 EU / 1 µg hFGF-6.

## Purity

A greater than or equal to 95% purity was determined by SDS-PAGE.

## Source / Purification

Recombinant human FGF-6 was expressed in *E. coli* and is supplied in a lyophilized form.

## Bioactivity

The bioactivity of recombinant hFGF-6 was determined in an NR6R-3T3 cell proliferation assay. The ED<sub>50</sub> of each lot is less than or equal to 1 ng/mL.

## Background References

1. Chen, G. et al. (2012) *Stem Cells* 30, 623-30.
2. Mossahebi-Mohammadi, M. et al. (2020) *Front Cell Dev Biol* 8, 79.
3. Zhang, X. et al. (2006) *J Biol Chem* 281, 15694-700.
4. Iida, S. et al. (1992) *Oncogene* 7, 303-9.

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