

## FGF-6 Protein, Human, Recombinant

### General Information

Synonyms:	HBGF-6;HST2;fibroblast growth factor 6
Protein Construction:	A DNA sequence encoding the mature form of human FGF6 (NP_066276.2)(Gly41-Ile208) was expressed with a N-terminal Met. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	P10767
Molecular Weight:	18.9 kDa (predicted); 19 kDa (reducing conditions)

### QC Testing

Biological Activity:	Measured in a cell proliferation assay using BALB/c 3T3 mouse fibroblasts. The ED50 for this effect is typically 1-6 ng/mL.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.15 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

FGF6, also known as FGF-6, belongs to the fibroblast growth factor (FGF) family. Members of this family possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF6 plays an important role in the regulation of cell proliferation, cell differentiation, angiogenesis and myogenesis. It is also required for normal muscle regeneration. FGF6 gene displayed oncogenic transforming activity when transfected

into mammalian cells.

#### Reference

Marics I, et al. (1989) Characterization of the HST-related FGF.6 gene, a new member of the fibroblast growth factor gene family. *Oncogene*. 4(3):335-40.

Coulier F, et al. (1991) Putative structure of the FGF6 gene product and role of the signal peptide. *Oncogene*. 6(8): 1437-44.

Iida S, et al. (1992) Human hst-2 (FGF-6) oncogene: cDNA cloning and characterization. *Oncogene*. 7(2):303-9.

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