

Active Recombinant Human FGF6 Protein

Cat. No. FGF6-89H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF6 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Fibroblast growth factor 6 (FGF-6) is a heparin-binding growth factor that is expressed in epithelial and mesenchymal lineages. FGF-6 binds and signals through the FGF receptors FGFR1, FGFR2, and FGFR4. FGF-6 functions as a mitogen for vascular endothelial cells and fibroblasts. FGF-6 is also an important factor driving muscle differentiation and regeneration.
Bio-activity	3T3 Proliferation w 1 ug heparin, ≤ 1 ng/mL; $\geq 1.0 \times 10^6$ units/mg
Molecular Mass	Monomer, 18.9 kDa (169 aa)
AA Sequence	MGTRANNTLLDSRGWGTTLLSRSRAGLAGEIAGVNWESGYLVGIKRQRRLYCNVGIG FHLQVLDPGRISGTHEENPYSLLISTVERGVVSLFGVRSALFVAMNSKGRLYATPS FQEECKFRETLPPNNYNAYESDLYQGTYIALSKYGRVKRGSKVSPIMTVTHFLPRI
Endotoxin	≤ 1 EUs/ μ g, Kinetic LAL
Purity	$\geq 95\%$, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

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	1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate and 50 mM sodium chloride, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	FGF6 fibroblast growth factor 6 [Homo sapiens (human)]
Official Symbol	FGF6
Synonyms	FGF6; fibroblast growth factor 6; FGF-6; HST-2; HSTF-2; heparin-binding growth factor 6; heparin secretory-transforming protein 2; HST2; HBGF-6;
Gene ID	2251

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mRNA Refseq	NM_020996
Protein Refseq	NP_066276
MIM	134921
UniProt ID	P10767

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