

## Animal-Free FGF-6 Protein, Human (His)

Cat. No.:	HY-P700068AF
Synonyms:	FGF-6; HBGF-6; HST-2; HSTF-2
Species:	Human
Source:	E. coli
Accession:	P10767 (G41-I208)
Gene ID:	2251
Molecular Weight:	Approximately 19.66 kDa

### PROPERTIES

AA Sequence	<p>M G T R A N N T L L      D S R G W G T L L S      R S R A G L A G E I      A G V N W E S G Y L</p> <p>V G I K R Q R R L Y      C N V G I G F H L Q      V L P D G R I S G T      H E E N P Y S L L E</p> <p>I S T V E R G V V S      L F G V R S A L F V      A M N S K G R L Y A      T P S F Q E E C K F</p> <p>R E T L L P N N Y N      A Y E S D L Y Q G T      Y I A L S K Y G R V      K R G S K V S P I M</p> <p>T V T H F L P R I</p>
Biological Activity	Measure by its ability to induce 3T3 cells proliferation. The ED <sub>50</sub> for this effect is <0.1 ng/mL. The specific activity of recombinant human FGF-6 is >1 x 10 <sup>7</sup> IU/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>FGF-6 Protein assumes a pivotal role in orchestrating the intricate regulation of cell proliferation, differentiation, angiogenesis, and myogenesis, while playing a crucial part in ensuring normal muscle regeneration. Its interactions with FGFR1, FGFR2, and FGFR4 underline its involvement in mediating signaling cascades that impact various cellular processes. Furthermore, the affinity between fibroblast growth factors (FGFs) and their receptors is heightened by the presence of heparan sulfate glycosaminoglycans, acting as coreceptors in this intricate signaling network. The multifaceted actions of</p>
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FGF-6 Protein underscore its significance in coordinating essential cellular events, highlighting its role in tissue development, angiogenesis, and the intricate process of muscle regeneration.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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