

BACKGROUND:

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.

Recombinant human Fibroblast growth factor 6 is a non-glycosylated protein monomer, containing 169 amino acids and having a molecular mass of 18 kDa.

Cat. No.:
RP1201

Alternate Names:

Heparin secretory-transforming protein 2, HST-2, HSTF-2, Heparin-binding growth factor 6, HBGF-6

AA Sequence:

MGTRANNTLL	DSRGWGTLSS	RSRAGLAGEI
AGVNWESGYL	VGIKRQRRLY	CNVGIGFHLQ
VLPDGRISGT	HEENPYSLLE	ISTVERGVVS
LFGVRSALFV	AMNSKGRLYA	TPSFQEECKF
RETLPPNNYN	AYESDLYQGT	YIALSKYGRV
KRGSKVSPIM	TVTHFLPRI	

TECHNICAL INFO**Source:**

E. coli

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

10 mM sodium phosphate and 50 mM sodium chloride, pH 7.5

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is measured by the dose-dependent NR6R-3T3 Proliferation w 1 ug heparin, with Bioactivity Acceptance Criteria ED50 at 1 ng/mL.

