


Human FGF-4 Protein, His tag (Animal-Free)

Cat #: PRP1923

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human FGF-4 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1923	LOT	Lot Number: Refer to product label
	Purity: > 95 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: Fibroblast growth factor 4(FGF-4) is a heparin binding member of the FGF family. Mature human FGF4 shares 91%, 82%, 94% and 91% aa identity with mouse, rat, canine and bovine FGF4, respectively. Human FGF-4 has been shown to exhibit cross species activity. Expression of FGF-4 and its receptors, FGF R1c, 2c, 3c and 4, is spatially and temporally regulated during embryonic development. FGF-4 is proposed to play a physiologically relevant role in human embryonic stem cell selfrenewal. It promotes stem cell proliferation, but may also aid differentiation depending on context and concentration, and is often included in embryonic stem cell media in vitro. FGF-4 is mitogenic for fibroblasts and endothelial cells in vitro and has autocrine transforming potential. It is a potent angiogenesis promoter in vivo and has been investigated as therapy for coronary artery disease.

Sequence: Amino acid sequence derived from Human FGF-4 (Gly25-Leu206) (P08620) was expressed with 6×His tag at the C-terminus.

Protein length: The recombinant Human FGF-4 consists of 182 amino acids and predicts a molecular mass of 20.7 kDa.

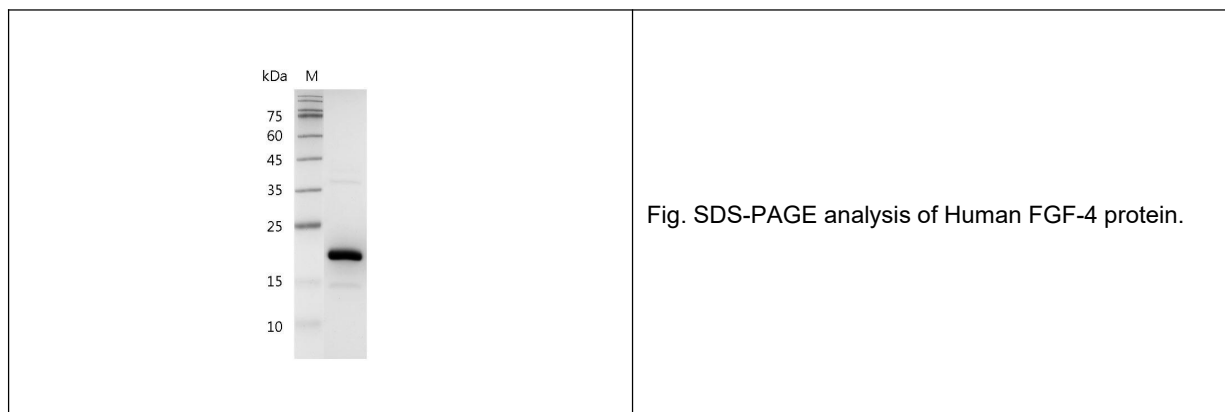
Biological Activity: Measured by its ability to induce 3T3 cells proliferation. The ED₅₀ for this effect is <2.5 ng/mL. The specific activity of recombinant human FGF-4 is > 4 x 10⁵ IU/mg.

Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized from PBS, pH 8.0.

Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA , 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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