


Human FGF-2 (154a,a) protein, Animal-Free

Cat #: PRP1068

Size: 20µg/100µg/500µg/1mg

Product Information

	Product Name: Human FGF-2 (154a,a) protein, Animal-Free		
REF	Catalog Number: PRP1068	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: FGF-2 is a member of the fibroblast family involved in bone healing, cartilage repair, bone repair, and nerve regeneration. FGF-2 is also a mitotic promoter that accelerates cell proliferation. FGF-2 regulates immune processes by specifically targeting tyrosine kinase receptors and activating the FGF/FGFR signaling pathway. For example, FGF-2 is involved in the JAK-STAT signaling pathway to regulate cartilage metabolism and also activates ERK signaling to promote cartilage regeneration.

Sequence: Amino acid sequence derived from Human FGF-2 protein (Ala135-Ser288) was expressed.

Protein length: The Human FGF-2 protein consists of 154 amino acids and has a predicted molecular mass of 17 kDa.

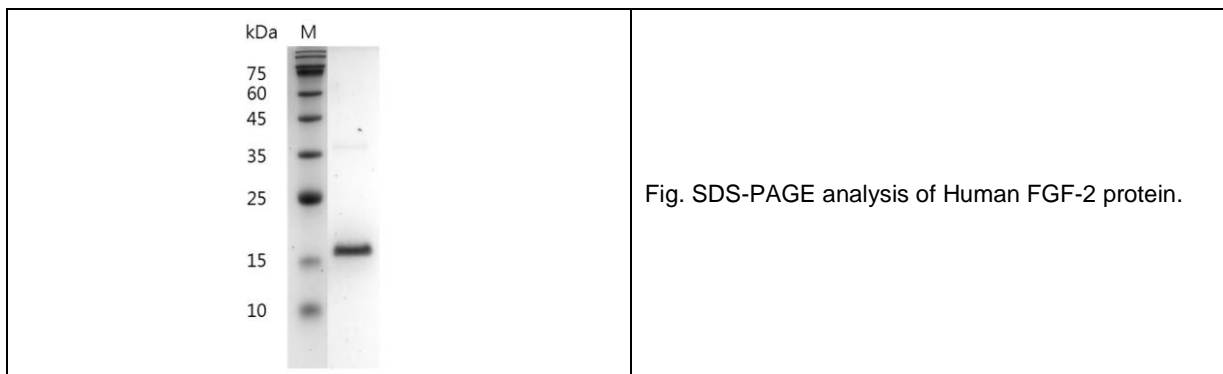
Biological Activity: Measure by its ability to induce 3T3 cells proliferation. The ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant human FGF-2 is approximately >5 x 10⁵ IU/mg.

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

Formulation: Lyophilized from sterile 0.01% sarkosyl in PBS, pH 8.0.

Storage Instructions: Lyophilized Human FGF-2 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 protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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