


## Human FGF-2 (154a,a) protein

Cat #: PRP1068

Size: 20µg/100µg/500µg/1mg

### Product Information

	<b>Product Name:</b> Human FGF-2 (154a,a) protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1068	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 98 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E.coli
	<b>Shipping:</b> 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 with a Met at N-terminus.

**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 ED<sub>50</sub> for this effect is <1 ng/mL. The specific activity of recombinant human FGF-2 is approximately >5 x 10<sup>5</sup> IU/mg.

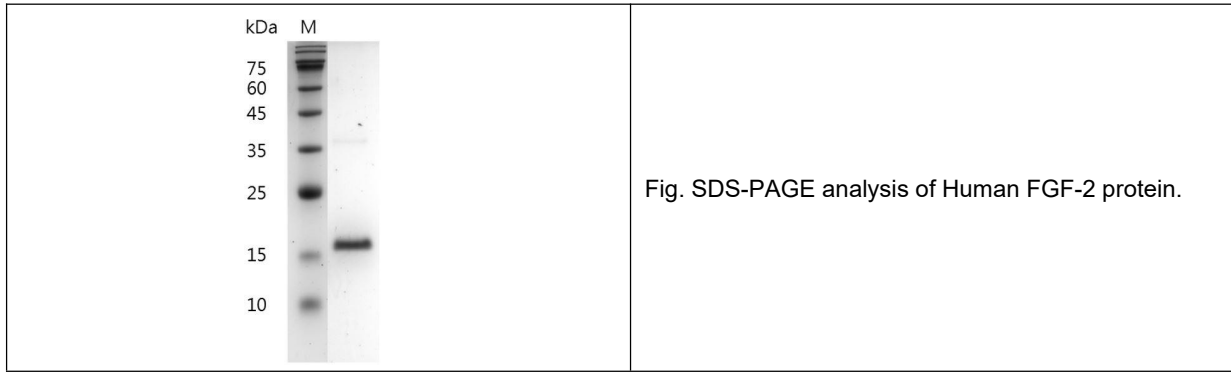
**Endotoxin:** < 0.1 EU per µg of the protein as determined by the LAL method.

**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 ddH<sub>2</sub>O, and keep at room temperature for at least 20 min to fully dissolve. Please

avoid vortex vigorously.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.