


## Mouse/Rat FGF-2 protein, His tag (Animal-Free)

Cat #: PRP1150

Size: 20 ug/100 ug/500 ug/1 mg

### Product Information

	<b>Product Name:</b> Mouse/Rat FGF-2 protein , His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1150	<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> <i>E.coli</i>
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** FGF-2 (FGFb, fibroblast growth factor basic) belongs to the fibroblast growth factor (FGF) family, and interacts with high-affinity transmembrane receptors to influence cell proliferation and tissue neovascularization. FGF-2 exists as five isoforms with distinct intracellular localizations and functions. The 18 kDa isoform is predominantly cytosolic and acts through cell surface receptors, whereas the 22, 22.5, 24 and 34 kDa isoforms are nuclear and may signal independent of transmembrane receptor pathways. FGF-2 has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth.

**Sequence:** Amino acid sequence derived from Mouse/Rat FGF-2 protein (Ala11-Ser154) with 6xHis tag at the N-terminus was expressed.

**Protein length:** The recombinant Mouse/Rat FGF-2 consists of 144 amino acids and predicts a molecular mass of 17.2 kDa.

**Biological Activity:** Measure by its ability to induce 3T3 cells proliferation. The ED<sub>50</sub> for this effect is <1.5 ng/mL. The specific activity of recombinant mouse FGF-2 is approximately >1 x 10<sup>6</sup> IU/mg.

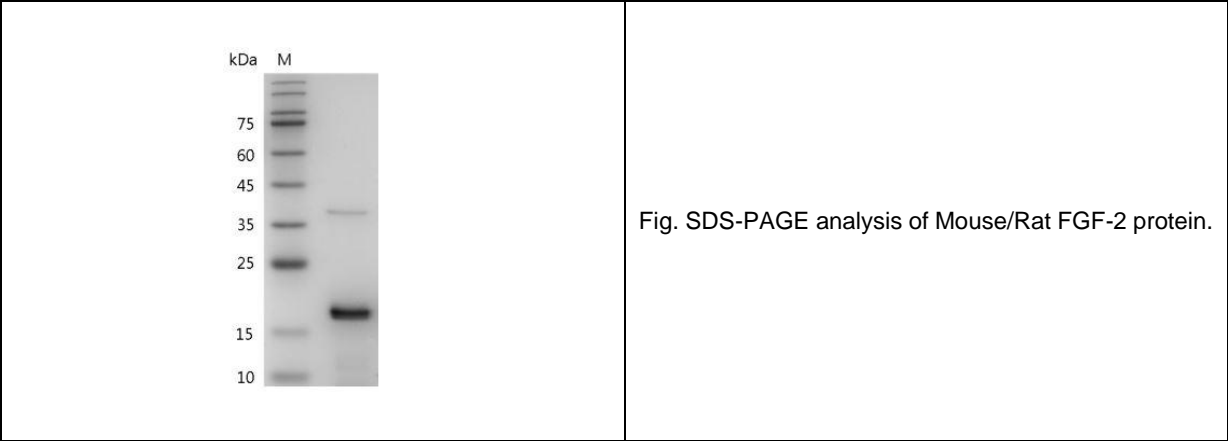
**Endotoxin:** < 0.1 EU per µg of the protein as determined by the LAL method.

**Formulation:** The protein was lyophilized from 0.01% sarkosyl in 1X 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

Mouse/Rat FGF-2 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.