


## Human GDF5 Protein

Cat #: PRP1073

Size: 5µg/20µg/100µg/1mg

### Product Information

	<b>Product Name:</b> Human GDF5 Protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1073	<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:** Human GDF-5 is expressed in long bones during embryonic development and postnatally in articular cartilage. Mutations in the Human GDF-5 gene have been implicated in Hunter-Thompson type dwarfism and in Grebe Syndrome, which is characterized by short stature, extra digits, and short and deformed extremities. The mature and functional form of Human GDF-5 is a homodimer of two 120 amino-acid polypeptide chain (monomers) linked by a single disulfide bond. Recombinant Human GDF-5 is a 27.0 kDa homodimeric disulfide-linked protein consisting of two 120 amino acid polypeptide chains.

**Sequence:** Amino acid sequence derived from Human GDF5 (Ala382-Arg501)(P43026) was expressed.

**Protein length:** The recombinant Human GDF5 consists of 120 amino acids and predicts a molecular mass of 13.5 kDa.

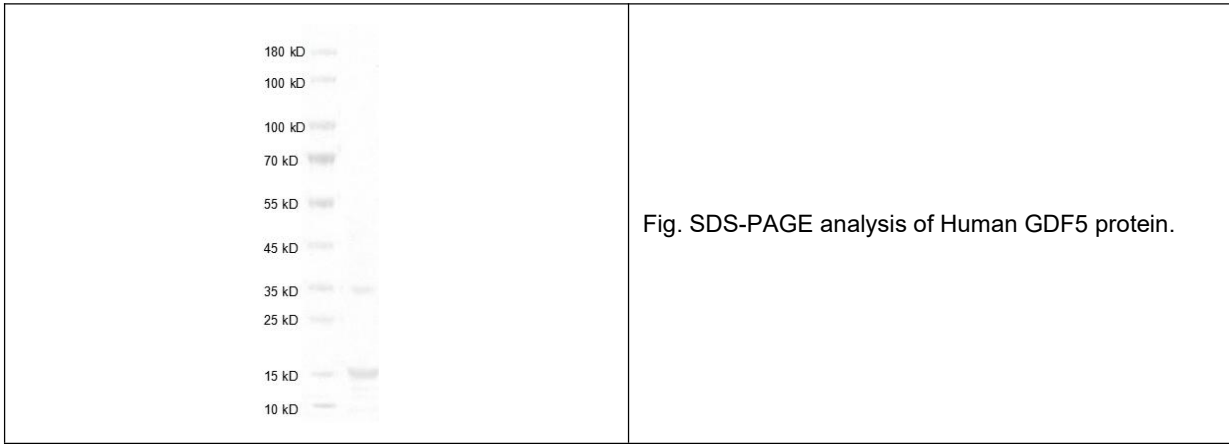
**Biological Activity:** Testing in progress.

**Endotoxin:** < 1 EU per µg of the protein as determined by the LAL method.

**Formulation:** Lyophilized from 40 mM Tris-HCl pH8.0, 50 mM NaCl.

**Storage Instructions:** Lyophilized recombinant Human GDF5 protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Human GDF5 protein using the buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



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