

Recombinant Mouse Gdf5 Protein, His-tagged

Cat. No. Gdf5-7211M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse GDF5 protein, fused to His-tag at N-terminus, was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	376-495
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates the development of numerous tissue and cell types, including cartilage, joints, brown fat, teeth, and the growth of neuronal axons and dendrites. Mice with a mutation in this gene exhibit enhanced tooth enamel formation.
Form	Liquid
Molecular Mass	16 kDa
AA Sequence	MGSSHHHHHSSGLVPRGSHMGSAPLANRQGKRPSKNLKARCSRKALHVNFKDM GWDDWIIAPLEYEAFHCEGLCEFPLRSHLEPTNHAVIQTLNMSMDPESTPPTCCVPT RLSPISILFIDSANNVYKQYEDMVVESCGR

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Purity	> 90 % by SDS-PAGE
Stability	Shelf life: one year from despatch.
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.
Concentration	0.5 mg/mL (determined by Bradford assay)
Storage Buffer	20 mM Tris-HCl buffer (pH 8.0) containing 10 % glycerol.

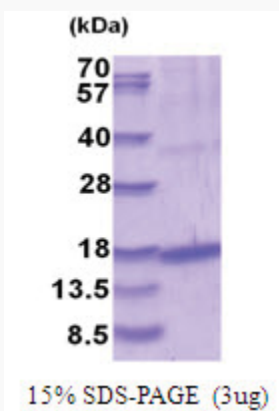
GENE INFORMATION

Gene Name	Gdf5 growth differentiation factor 5 [Mus musculus (house mouse)]
Official Symbol	Gdf5
Synonyms	Gdf5; growth differentiation factor 5; b; bp; brp; CDMP-; BMP-14; Cdmp-1; growth/differentiation factor 5; bone morphogenetic protein 14; cartilage-derived morphogenetic protein-1
Gene ID	14563
mRNA Refseq	NM_008109
Protein Refseq	NP_032135
UniProt ID	P43027

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SDS-PAGE

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