Recombinant Mouse Gdf5 protein, His-tagged

Cat. No. Gdf5-512M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gdf5(376-495aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	376-495 a.a.
Description	Growth/differentiation factor 5 precursor, also known as GDF5, is a member of the TGF superfamily. GDF5 has been shown to induce activation of plasminogen activator, thereby inducing angiogenesis. It is predominantly expressed in long bones during fetal embryonic development and is involved in bone formation. GDF5mutations have been identified in mice with the mutation brachypodism (bp), a mutation which affects the length and number of bones in limbs.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Molecular Mass	16kDa (143aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSAPLANRQ GKRPSKNLKA RCSRKALHVN FKDMGWDDWI IAPLEYEAFH CEGLCEFPLR SHLEPTNHAVIQTLMNSMDP ESTPPTCCVP TRLSPISILF IDSANNVVYK QYEDMVVESC GCR
Purity	> 90% by SDS - PAGE

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Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	Gdf5 growth differentiation factor 5 [Mus musculus]
Official Symbol	Gdf5
Synonyms	GDF5; growth differentiation factor 5; growth/differentiation factor 5; GDF-5; brachypodism; cartilage-derived morphogenetic protein-1; bp; brp; Cdmp-1;
Gene ID	14563
mRNA Refseq	NM_008109
Protein Refseq	NP_032135
MIM	
UniProt ID	P43027
Chromosome Location	2 H1; 2 77.26 cM
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;

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Function	cytokine activity; growth factor activity; protein binding;

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