

Active Recombinant Mouse Growth Differentiation Factor 6

Cat. No. Gdf6-722M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gdf6 protein was expressed in E. coli. Thr335-Arg454.
Species	Mouse
Source	E.coli
Protein Length	335-454 a.a.
Description	Gdf6, also known as bone morphogenetic protein 13 (BMP13) or cartilage-derived morphogenetic protein 2 (CDMP2), is a member of the bone morphogenetic protein (BMP) family which belongs to the transforming growth factor β (TGF β) superfamily. The mature Gdf6 with 120 amino acids is a homodimeric protein containing the characteristic seven conserved cysteine residues. Gdf5, Gdf6 and Gdf7, which share 80-86% identity, define a new subgroup within the BMP family.
Form	Lyophilized from a 0.2 μ m filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
N-terminal Sequence	Thr335
Molecular Weight	13.7 kDa
Activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. Nakamura, K. et al. (1999) Exp. Cell Res. 250:351. The ED50 for this effect is typically 4-16 μ g/mL.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	300 µg/mL in sterile 4 mM HCl that containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Gdf6 growth differentiation factor 6 [Mus musculus]
Official Symbol	Gdf6
Synonyms	Gdf6; growth differentiation factor 6; BMP13; GDF16; growth/differentiation factor 6; GDF-6; growth differentiation factor 16; growth/differentiation factor 16
Gene ID	242316
mRNA Refseq	NM_013526
Protein Refseq	NP_038554
UniProt ID	P43028
Chromosome Location	4 A1; 4

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Pathway	TGF-beta signaling pathway
Function	cytokine activity; growth factor activity; protein homodimerization activity