

## Active Recombinant Mouse Growth Differentiation Factor 6

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Gdf6 protein was expressed in E. coli. Thr335-Arg454.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Protein Length</b>	335-454 a.a.
<b>Description</b>	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 $\beta$ (TGF $\beta$ ) 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.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
<b>N-terminal Sequence</b>	Thr335
<b>Molecular Weight</b>	13.7 kDa
<b>Activity</b>	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 $\mu$ g/mL.

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<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	300µg/mL in sterile 4 mM HCl that containing at least 0.1% human or bovine serum albumin.
<b>Storage</b>	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

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

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<b>Pathway</b>	TGF-beta signaling pathway
<b>Function</b>	cytokine activity; growth factor activity; protein homodimerization activity

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