

Active Recombinant Mouse Growth Differentiation Factor 3

Cat. No. Gdf3-718M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gdf3 protein was expressed in E. coli. Ala253-Gly366.
Species	Mouse
Source	E.coli
Protein Length	253-366 a.a.
Description	Gdf3 is a TGF β superfamily member belonging to the growth/differentiation factor family. Gdf3 is expressed in undifferentiated embryonic stem (ES) cells, adipose tissue and the brain. In ES cells, it maintains pluripotency and influences early cell fate decisions. For example, frog embryos injected with Gdf3 develop a secondary dorsal axis and deletion of mouse Gdf3 can produce defects in the anterior visceral endoderm of the pregastrulation embryo.
Form	Lyophilized from a 0.2 μ m filtered solution in Acetonitrile and TFA.
N-terminal Sequence	Ala253
Molecular Weight	13.1 kDa
Activity	Measured by its ability to bind with Activin RIB/Fc Chimera in the presence of rmiCrip1 in functional ELISA. Chen, et al. (2005) Development 133:319. Immobilized rmGdf3 at 1 μ g/mL (100 μ L/well) can bind rhActivin RIB/Fc Chimera with an apparent KD < 100 nM.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile 4 mM HCl
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	Gdf3 growth differentiation factor 3 [Mus musculus]
Official Symbol	Gdf3
Synonyms	Gdf3; growth differentiation factor 3; Vgr2; Gdf-3; Vgr-2; ecat9; C78318; MGC123990; MGC123991; growth/differentiation factor 3; VG-1-related protein 2
Gene ID	14562
mRNA Refseq	NM_008108
Protein Refseq	NP_032134
UniProt ID	Q07104
Chromosome Location	6 F1; 6 60.6 cM

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Function

cytokine activity;growth factor activity; protein binding

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