

Active Recombinant Mouse Growth Differentiation Factor 3

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

SPECIFICATION

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| 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 TGFβ 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 μm 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 rmCripto in functional ELISA. Chen, et al. (2005) Development 133:319. Immobilized rmGdf3 at 1 μg/mL (100 μL/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 | 100µg/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

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| 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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