

Active Recombinant Mouse Growth Differentiation Factor 9

Cat. No. Gdf9-726M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gdf9 protein was expressed in CHO. Gly307-Arg441.
Species	Mouse
Source	CHO
Protein Length	307-441 a.a.
Description	Gdf9 is a member of the transforming growth factor β (TGF- β) superfamily, and is an oocyte secreted paracrine factor essential for mammalian ovarian folliculogenesis. Mouse Gdf9 is synthesized as a 441 amino acid (aa) prepropeptide that contains a 29 aa signal sequence, a 277 aa propeptide, and a 135 aa mature chain. Residues 340-441 constitute a TGF- β like domain. In addition, there is one potential site of N-linked glycosylation in the mature chain.
Form	Lyophilized from a 0.2 μ m filtered solution in HCl with BSA as a carrier protein.
N-terminal Sequence	Gly307
Molecular Weight	15.6 kDa
Activity	Measured by its ability to induce Smad2 phosphorylation in P19 mouse embryonal carcinoma cells. Mazerbourg, S. et al. (2004) Mol. Endocrinol. 18:653. 100ng/mL rmGdf9 can effectively induce Smad2 phosphorylation.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	20 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in 4 mM HCl that containing 0.1% 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	Gdf9 growth differentiation factor 9 [Mus musculus]
Official Symbol	Gdf9
Synonyms	Gdf9; growth differentiation factor 9; Gdf-9; growth/differentiation factor 9
Gene ID	14566
mRNA Refseq	NM_008110
Protein Refseq	NP_032136
UniProt ID	Q07105
Chromosome Location	11 B1.3; 11 29.0 cM
Pathway	Ovarian Infertility Genes; PluriNetWork

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Function	cytokine activity;growth factor activity
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