

Active Recombinant Human GDF9 Protein

Cat. No. GDF9-053H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mature recombinant human GDF-9 protein (320-454aa) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	320-454 a.a.
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates ovarian function. Reduced expression of this gene may be associated with polycystic ovary syndrome and mutations in this gene may be more common in mothers of dizygotic twins.
Bio-activity	Measured by its ability to induce cell death using Mv1Lu mink lung epithelial cells. The ED50 for this effect is 50-250 ng/mL.
Molecular Mass	16 kDa
Product-Related Proteins	320-454

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Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	GDF9 growth differentiation factor 9 [Homo sapiens (human)]
Official Symbol	GDF9
Synonyms	GDF9; growth differentiation factor 9; POF14; growth/differentiation factor 9
Gene ID	2661
mRNA Refseq	NM_005260
Protein Refseq	NP_005251
MIM	601918
UniProt ID	O60383

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