

Recombinant Human Growth Differentiation Factor 9

Cat. No. GDF9-245H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GDF-9 produced in <i>E.coli</i> is a 31.0 kDa non-disulfide-linked homodimer containing two 135 amino acid polypeptide chains.
Species	Human
Source	E.coli
Description	GDF-9 is a member of the TGF- β superfamily of growth and differentiation factors, and is highly homologous to GDF-3. Unlike most TGF-family members, GDF-9 and GDF-3 are not disulfide-linked dimers. GDF-3 is expressed in adult bone marrow, spleen, thymus, and adipose tissue. GDF-9 is expressed in oocytes and is required for normal ovarian folliculogenesis.
Purity	> 98% by SDS-PAGE and HPLC analysis.
Endotoxin level	< 0.1 ng per μ g of GDF-9.
Stabilizer	None.
Formulation	Lyophilized.
Biologically Activity	Testing in progress.
Reconstitution	The human GDF-9 should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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20°C.

Stability

The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human GDF-9 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name

GDF9 growth differentiation factor 9 [Homo sapiens]

Synonyms

GDF9; growth differentiation factor 9; OTTHUMP00000066213; Growth/differentiation factor 9; GDF-9

Gene ID

2661

mRNA Refseq

NM_005260

Protein Refseq

NP_005251

MIM

601918

UniProt ID

O60383

**Chromosome
Location**

5q31.1

Function

cytokine activity; growth factor activity

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