

Recombinant Human Growth Differentiation Factor 9, His-tagged

Cat. No. GDF9-223H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Growth Differentiation Factor 9 encoding the mature human Growth differentiation factor 9 (Gln ³²⁰ -Arg ^{454P}) was recombined with his tag at the N-Terminus. That was expressed in <i>E.Coli</i> , and purified by Ni-NTA column. MW=14.9KD.
Species	Human
Source	E.coli
ProteinLength	320-454 a.a.
Description	Growth/differentiation factor 9 is a protein that in humans is encoded by the GDF9 gene. Growth factors synthesized by ovarian somatic cells directly affect oocyte growth and function. Growth differentiation factor-9 (GDF9) is expressed in oocytes and is thought to be required for ovarian folliculogenesis. GDF9 is a member of the transforming growth factor-beta (TGFβ) superfamily. GDF9 plays an important role in the development of primary follicles in the ovary. It has a critical role in granulosa cell and theca cell growth, as well as in differentiation and maturation of the oocyte.
Sequence	Human Growth differentiation factor (Gln ³²⁰ -Arg ^{454P}) 320GQETVSSELK KPLGPASF NL SEYFRQFLLP QNECELHDFR LSFSQLKWDN WIVAPHRYNP RYCKGDCPRA V GHRYGSPVH TMVQNIIEYK LDSSVPRPSC VPAKYSPLSV LTIEPDGSIA YKEYEDM IAT KCTCR 454.

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Purity	>95% in SDS gel.
Formulation	Lyophilized 100 µg human Growth differentiation factor 9 in 50 µl of TBS (20 mM Tris, 50mM NaCl, pH8.0). Carry free.
Application	Cell biology, ELISA.
Reconstitution	Add 500 µl deionized water to the vial to prepare a working stock solution at 200µg/mL. Allow to set at least 30 minutes at 4°C, mix well.
Storage	Store lyophilized protein at -20°C or -70°C. Lyophilized protein is stable for up to 6 months from date of receipt at -70°C. Upon reconstitution, this protein can be stored at for a few weeks or at -70°C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freezing / thawing cycles.

GENE INFORMATION

Gene Name	GDF9 growth differentiation factor 9 [Homo sapiens]
Synonyms	GDF9; growth differentiation factor 9; OTTHUMP00000066213;GDF-9; Growth/differentiation factor 9
Gene ID	2661
mRNA Refseq	NM_005260
Protein Refseq	NP_005251
MIM	601918
UniProt ID	O60383

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Chromosome Location	5q31.1
Function	cytokine activity; growth factor activity

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