

Active Recombinant Human GDF9 protein, His-tagged

Cat. No. GDF9-3341H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human GDF9 protein(O60383)(320~454 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	320-454 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	GDF9 (Growth/differentiation factor 9) is an oocyte derived growth factor which belongs to the transforming growth factor-beta (TGFβ) superfamily. GDF9 is required for ovarian folliculogenesis and promotes primordial follicle development. S100A8 has been identified as an interactor of GDF9 through two-hybrid assay, thus a binding ELISA assay was conducted to detect the interaction of recombinant human GDF9 and recombinant human S100A8. Briefly, GDF9 were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to S100A8-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-GDF9 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The

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binding activity of of GDF9 and S100A8 was shown, and this effect was in a dose dependent manner.

Molecular Mass	16.8kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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

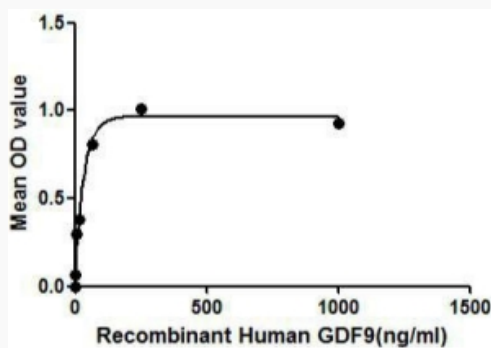
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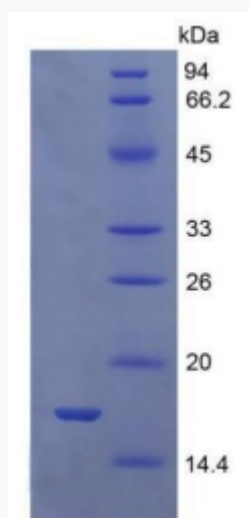
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UniProt ID O60383

Activity



SDS-PAGE



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