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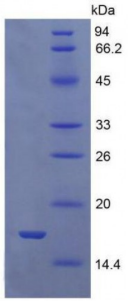
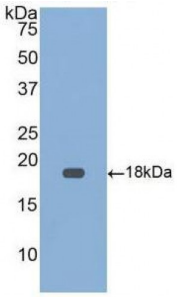
DATASHEET

Human Growth Differentiation Factor 9 (GDF9) Protein (Active)

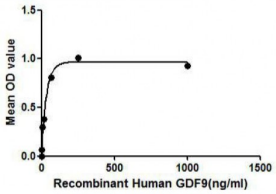
Catalogue No.:abx651345



SDS-PAGE analysis of active recombinant Human GDF9.



Western blot analysis of recombinant Human GDF9, using Rabbit Anti-Human GDF9 Antibody (abx103268).



Binding activity of GDF9 with S100A8 (see Biological Activity section).

Growth Differentiation Factor 9 (GDF9) Protein (Active) is an active protein from Human.

Target:	Growth Differentiation Factor 9 (GDF9)
Origin:	Human
Host:	E. coli
Purity:	> 92%
Form:	Lyophilized
Reconstitution:	Reconstitute in 20 mM Tris, 150 mM NaCl, pH 8.0, to a concentration of 0.1-1.0 mg/ml. Do not vortex.
Conjugation:	Unconjugated

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Storage: Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.

Molecular Weight: Calculated MW: 16.8 kDa
Observed MW (SDS-PAGE): 18 kDa

Swiss Prot: O60383

Sequence Fragment: Gly320-Arg454

Sequence: G QETVSSELKK PLGPASFNLS EYFRQFLLPQ NECELHDFRL SFSQLKWDNW IVAPHRYNPR YCKGDCPRAV GHRYGSPVHT MVQNIIYEKL DSSVPRPSCV PAKYSPLSVL TIEPDGSIAY KEYEDMIATK CTCR

Tag: N-terminal His-tag

Activity: Active

Biological Activity: Growth Differentiation Factor 9 (GDF9) is an oocyte-derived growth factor which belongs to the transforming growth factor-beta (TGFβ) superfamily. It is required for ovarian folliculogenesis and promotes primordial follicle development. S100A8 has been identified as an interactor of GDF9, thus a binding ELISA assay was conducted to detect the interaction of recombinant human GDF9 and recombinant human S100A8. GDF9 protein was serially diluted in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to S100A8-coated microplate wells and incubated for 2 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-GDF9 polyclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody, wells were aspirated and washed 3 times. TMB substrate solution was added and wells were incubated for 15-25 minutes at 37 °C. Finally, 50 µl stop solution was added to the wells and the absorbance was read at 450 nm immediately. The binding activity of GDF9 and S100A8 is shown in Figure 3.

Concentration: Prior to lyophilization: 200 µg/ml

Buffer: Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.05% Sarcosyl, 5% Trehalose.

Note: This product is for research use only.