Datasheet for ABIN6239856
GDF9 Protein (AA 320-454) (His tag)
1 Image
1 Publication


## Overview

| Quantity: | $50 \mu \mathrm{~g}$ |
| :--- | :--- |
| Target: | GDF9 |
| Protein Characteristics: | AA 320-454 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This GDF9 protein is labelled with His tag. |
| Application: | Activity Assay (AcA), Cell Culture (CC) |

Product Details

| Characteristics: | Tag location: N-terminal His Tag |
| :--- | :--- |
| Purity: | $>90 \%$ |
| Biological Activity Comment: | GDF9 (Growth/differentiation factor 9 ) is an oocyte derived growth factora which belongs to the |
|  | transforming growth factor-beta (TGF $\beta$ ) 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 2 h at $37^{\circ} \mathrm{C}$. Wells were |
|  | washed with PBST and incubated for 1 h 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 $37^{\circ} \mathrm{C}$. |

Finally, add $50 \mu \mathrm{~L}$ stop solution to the wells and read at 450 nm immediately. The binding activity of of GDF9 and S100A8 was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of GDF9 with S100A8.

Target Details

| Target: | GDF9 |
| :---: | :---: |
| Abstract: | GDF9 Products |
| Molecular Weight: | 18kDa |
| UniProt: | 060383 |
| Application Details |  |
| Application Notes: | Isoelectric Point: 7.1 |
| Restrictions: | For Research Use only |
| Handling |  |
| Format: | Lyophilized |
| Buffer: | 20 mM Tris, $150 \mathrm{mM} \mathrm{NaCl}, \mathrm{pH}$ 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 \% SKL, 5 \% Trehalose and Proclin300. |
| Preservative: | Dithiothreitol (DTT), Other preservative, ProClin |
| Precaution of Use: | This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only. |

## Publications

Product cited in:
Li, Meng, Liu, Li, Zhang, Zhou, Yao, Dong, Liu, Zhou, Li, Tao, Wu, Shen, Liu: "Oocytes and hypoxanthine orchestrate the G2-M switch mechanism in ovarian granulosa cells." in:

Development (Cambridge, England), Vol. 147, Issue 13, (2020) (PubMed).


Image 1.

