

Human Noggin protein, His tag

Cat. No. GTX00263-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

Noggin, also known as NOG, is a protein that is involved in the development of many body tissues, including nerve tissue, muscles, and bones. Noggin is a signaling molecule that plays an important role in promoting somite patterning in the developing embryo. It is released from the notochord and regulates bone morphogenic protein (BMP4) during development. It also causes formation of the head and other dorsal structures. Besides, Growth Differentiation Factor 5 (GDF5) has been identified as an interactor of NOG, thus a binding ELISA assay was conducted to detect the interaction of recombinant human NOG and recombinant human CDF5. Briefly, NOG were diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CDF5-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-NOG 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 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of NOG and CDF5 was in a dose dependent manner.

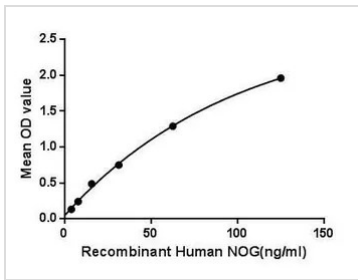
Observed MW (kDa) 24 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Gln28~Cys232 (NP_005441.1)**Expression System** E. coli**Purity** > 95%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

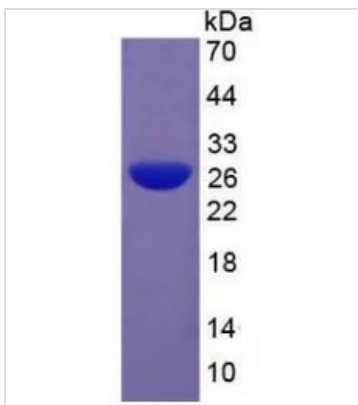
For full product information, images and publications, please visit our [website](#).

DATA IMAGES



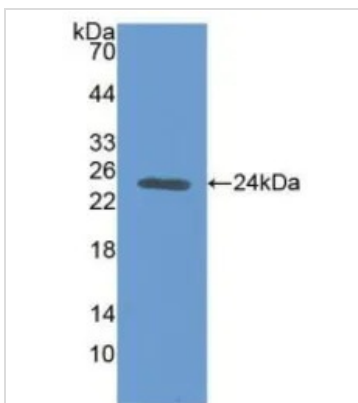
GTX00263-pro Functional Assay Image

Functional ELISA analysis of GTX00263-pro Human Noggin protein which can bind immobilized CDF5 protein.



GTX00263-pro Image

SDS-PAGE analysis of GTX00263-pro Human Noggin protein.



GTX00263-pro Image

WB analysis of GTX00263-pro Human Noggin protein.



For full product information, images and publications, please visit our [website](https://www.genetex.com).