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Product Datasheet

Human Noggin protein, His tag, Unconjugated
GTX00263-PRO

Article Name	Human Noggin protein, His tag, Unconjugated
Biozol Catalog Number	GTX00263-PRO
Supplier Catalog Number	GTX00263-pro
Alternative Catalog Number	GTX00263-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	9241
UniProt	Q13253
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, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Gln28~Cys232 (NP_005441.1)

Application Notes	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 37C. 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 37C. 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.