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## Product Datasheet

### Human Noggin protein, His tag, Unconjugated GTX00263-PRO

Artikelname	Human Noggin protein, His tag, Unconjugated
Artikelnummer	GTX00263-PRO
Hersteller Artikelnummer	GTX00263-pro
Alternativnummer	GTX00263-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Human
Konjugation	Unconjugated
NCBI	<a href="#">9241</a>
UniProt	<a href="#">Q13253</a>
Puffer	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
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Gln28~Cys232 (NP_005441.1)

Anwendungsbeschreibung

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.