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Product Datasheet

Rat Noggin protein, His and MBP tag, Unconjugated GTX00055-PRO

Artikelname	Rat Noggin protein, His and MBP tag, Unconjugated
Artikelnummer	GTX00055-PRO
Hersteller Artikelnummer	GTX00055-pro
Alternativnummer	GTX00055-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Rat
Konjugation	Unconjugated
NCBI	25495
UniProt	Q62809
Puffer	Reconstitute with 10mM PBS (pH7.4) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS (pH7.4), 0.01% SKL, 1mM DTT, 5% Trehalose, ProClin 300.
Expression System	E. coli
Formulierung	Lyophilized powder
Sequenz	N-terminal His and MBP-Tag, Met28~Cys144

Anwendungsbeschreibung	NOG (Noggin) is a signaling molecule that plays an important role in promoting somite patterning in the developing embryo, essential for cartilage morphogenesis and joint formation. It is considered as an inhibitor in bone morphogenetic proteins (BMP) signaling, by binding with BMP4, thus a binding ELISA assay was conducted to detect the association of recombinant rat NOG with BMP4. Briefly, NOG were diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to BMP4-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 with BMP4 was in a dose dependent manner.
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