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Product Datasheet

Human DKK1 protein, His tag, Unconjugated
GTX00188-PRO

Artikelname	Human DKK1 protein, His tag, Unconjugated
Artikelnummer	GTX00188-PRO
Hersteller Artikelnummer	GTX00188-pro
Alternativnummer	GTX00188-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Human
Konjugation	Unconjugated
NCBI	22943
UniProt	O94907
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-Tag, Leu33~His266 (NP_036374.1)

Anwendungsbeschreibung	Dickkopf-related protein 1 (DKK1) is a protein which is a member of the dickkopf family. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the Wnt signaling pathway. Dickkopf WNT signaling pathway inhibitor 1 (Dkk1) is a protein-coding gene that acts from the anterior visceral endoderm. The dickkopf protein encoded by DKK1 is an antagonistic inhibitor of the WNT signaling pathway that acts by isolating the CTNNb1 co-receptor so that it cannot aid in activating the WNT signaling pathway. DKK1 was also demonstrated to antagonize the Wnt/beta-catenin pathway via a reduction in beta-catenin and an increase in OCT4 expression. Besides, Catenin Beta1 (CTNNb1) has been identified as an interactor of DKK1 thus a binding ELISA assay was conducted to detect the interaction of recombinant human DKK1 and recombinant human CTNNb1. Briefly, DKK1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CTNNb1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-DKK1 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 DKK1 and CTNNb1 was in a dose dependent manner.