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Product Datasheet

Human IL22 protein, His tag, Unconjugated
GTX00189-PRO

Artikelname	Human IL22 protein, His tag, Unconjugated
Artikelnummer	GTX00189-PRO
Hersteller Artikelnummer	GTX00189-pro
Alternativnummer	GTX00189-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Human
Konjugation	Unconjugated
NCBI	50616
UniProt	Q9GZX6
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, Ala34~Ile179 (NP_065386.1)

Anwendungsbeschreibung	Interleukin 22 (IL22) is a member of a group of cytokines called the IL-10 family or IL-10 superfamily, a class of potent mediators of cellular inflammatory responses. It shares use of IL-10R2 in cell signaling with other members of this family, IL-10, IL-26, IL-28A/B and IL-29. IL-22 is produced by activated NK and T cells and initiates innate immune responses against bacterial pathogens especially in epithelial cells such as respiratory and gut epithelial cells. IL-22 biological activity is initiated by binding to a cell-surface complex composed of IL-22R1 and IL-10R2 receptor chains and further regulated by interactions with a soluble binding protein. IL-22 can contribute to immune disease through the stimulation of inflammatory responses, S100s and defensins. IL-22 also promotes hepatocyte survival in the liver and epithelial cells in the lung and gut similar to IL-10. Besides, Interleukin 10 Receptor Beta (IL10Rb) has been identified as an interactor of IL22, thus a binding ELISA assay was conducted to detect the interaction of recombinant human IL22 and recombinant human IL10Rb. Briefly, IL22 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL10Rb-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-IL22 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 IL22 and IL10Rb was in a dose dependent manner.