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Product Datasheet

Rat IL13 protein, His tag, Unconjugated GTX00368-PRO

Article Name	Rat IL13 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00368-PRO
Supplier Catalog Number	GTX00368-pro
Alternative Catalog Number	GTX00368-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Rat
Conjugation	Unconjugated
NCBI	116553
UniProt	P42203
Buffer	Reconstitute with 100mM NaHCO ₃ and 500mM NaCl (pH8.3) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 100mM NaHCO ₃ (pH8.3), 500mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Pro22~His131 (NP_446280.1)

Application Notes

Interleukin 13 (IL13) is cytokine secreted by many cell types, but especially T helper type 2 (Th2) cells. IL13 has effects on immune cells that are similar to those of the closely related cytokine IL4. Although IL13 is associated primarily with the induction of airway disease, it also has anti-inflammatory properties. IL13 induces a class of protein-degrading enzymes, known as matrix metalloproteinases (MMPs), in the airways. Furthermore, IL-13 can induce immunoglobulin E (IgE) secretion from activated human B cells. Besides, Interleukin 13 Receptor Alpha 1 (IL13Ra1) has been identified as an interactor of IL13, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat IL13 and recombinant rat IL13Ra1. Briefly, IL13 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL13Ra1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-IL13 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 IL13 and IL13Ra1 was in a dose dependent manner.