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Product Datasheet

Human IL1 Receptor antagonist protein, His tag, Unconjugated GTX00277-PRO

Article Name	Human IL1 Receptor antagonist protein, His tag, Unconjugated
Biozol Catalog Number	GTX00277-PRO
Supplier Catalog Number	GTX00277-pro
Alternative Catalog Number	GTX00277-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	3557
UniProt	P18510
Buffer	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	HEK293 cells
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Arg26~Glu177 (NP_000568.1)

Application Notes	IL-1RA is an agent that binds non-productively to the cell surface interleukin-1 receptor (IL-1R), the same receptor that binds interleukin 1 (IL-1), preventing IL-1 from sending a signal to that cell. Besides, Interleukin 1 Alpha (IL-1a) has been identified as an interactor of IL-1RA, thus a binding ELISA assay was conducted to detect the interaction of recombinant human IL-1RA and recombinant human IL-1a. Briefly, IL1RA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL-1a-coated microtiter wells and incubated for 2 h at 37C. Wells were washed with PBST and incubated for 1 h with anti-IL-1RA 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 IL-1RA and IL-1a was in a dose dependent manner.
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