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Product Datasheet

Human IL1 beta protein, His tag (active), Unconjugated GTX00116-PRO

Article Name	Human IL1 beta protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00116-PRO
Supplier Catalog Number	GTX00116-pro
Alternative Catalog Number	GTX00116-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	3553
UniProt	P01584
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	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Ala117~Ser269 (NP_000567.1)

Application Notes

IL-1beta (Interleukin-1 beta) is a proinflammatory and immunoregulatory cytokine involved in a variety of cellular activities. It is produced by activated macrophages as a proprotein, and then proteolytically processed to an active form. It has been reported that IL-1beta-induced IL-6 production is mediated by both PI3K and IRAK4 in A549 cells. To detect the bioactivity of IL-1beta, A549 cells were seeded into 24-well plate at a density of 1×10^5 cells/ml, and allowed to attach overnight before treated with or without certain concentrations (1 ng/ml, 10 ng/ml) of IL1-beta for 4h and IL-6 levels in the cell supernatant were determined by ELISA. IL-6 levels in the cell supernatant of A549 cells increased significantly after stimulated with IL1-beta.