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Product Datasheet

Recombinant Human IL-4 (E. coli) EBT-EPT139

Article Name	Recombinant Human IL-4 (E. coli)
Biozol Catalog Number	EBT-EPT139
Supplier Catalog Number	EPT139
Alternative Catalog Number	EBT-EPT139-50
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant Human Interleukin-4 is produced by our E.coli expression system and the target gene encoding His25-Ser153 is expressed....
Molecular Weight	Molecular weight: 15.1 KDa. Apparent molecular weight: 13-14 KDa, reducing conditions
UniProt	P05112
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes	Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.001 ng/µg (0.01 EU/µg) as determined by LAL test. Biological activity: Loaded Cynomolgus IL-4RA-Fc(CatC939) on Protein A Biosensor, can bind Human IL-4(CatC050) with an affinity constant of $<10^{-3}$ nM as determined in BLI assay.. Background: Interleukin-4 (IL-4) is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. IL-4 is produced by mast cells, T cells, and bone marrow stromal cells. IL-4 regulates the differentiation of naive CD4+ T cells into helper Th2 cells, characterized by their cytokine-secretion profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergic response
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