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IL-4 Recombinant Protein

CATALOG NUMBER: 90-477

Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Human IL-4 (aa 25-153) is fused at the C-terminus to a His-tag.
FUSION TAG:	His Tag
TESTED APPLICATIONS:	
APPLICATIONS:	This recombinant proteins is for research use only.
BIOLOGICAL ACTIVITY:	N/A

Properties

PURITY:	>98% (SDS-PAGE). Endotoxin level is less than 0.1EU/ ug protein (LAL test; Lonza).
PHYSICAL STATE:	Lyophilized
BUFFER:	Lyophilized from 0.2um-filtered solution in PBS (pH 7.4). Reconstituted in sterile H2O not less than 100 ug/ml, which can then be further diluted in other aqueous solutions.
STORAGE CONDITIONS:	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.

Additional Info

ALTERNATE NAMES:	Interleukin-4, B Cell Stimulatory Factor 1, BSF-1
ACCESSION NO.:	NP_000580
PROTEIN GI NO.:	4504669

Background

Interleukin-4 (IL-4) is a cytokine produced by type 2 helper T cells, the Th2 cells. These cells tends to make a specific set of lymphokines including IL-4, IL-5, IL-6, IL-10, IL-13, IL-3 and GM-CSF and fail to produce IL-2, IFN-gamma, and lymphotoxin (TNF-beta). In addition, mast cells can produce IL-4. IL-4 exerts numerous effects on various hematopoietic cell types. On B cells, IL-4 promotes immunoglobulin class switching to IgE and IgG1 isotypes and upregulates MHC class II and CD23 expression. IL-4 promotes survival, growth, and differentiation of both T and B lymphocytes, mast cells and endothelial cells. In addition, IL-4 inhibits the production of TNF, IL-1, and IL-6 by macrophages.

FOR RESEARCH USE ONLY

February 23, 2018