Active GMP Recombinant Human IL4 Protein

Cat. No. IL4-139HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mature form of human IL4 isoform 1 (P05112-1) (His25-Ser153) was expressed and purified, with an initial Met in an animal component free process under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	25-153 a.a.
Predicted N Terminal	Met
Form	Lyophilized from sterile 50 mM Tris, 300 mM NaCl, pH 7.0, 5 % trehalose, 5 % mannitol and 0.01% Tween80.
Bio-activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.05-0.2 ng/mL. The specific activity of recombinant human IL-4 is approximately 1.4 x 10^4 IU/μg, which is calibrated against human IL-4 WHO International Standard (NIBSC code: 88/656).
Molecular Mass	The GMP recombinant human IL4 consisting of 130 amino acids and migrates with an apparent molecular mass of 15 kDa as predicted.
Endotoxin	< 0.01 EU per μg of the protein as determined by the LAL method.

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Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	IL4 interleukin 4 [Homo sapiens]
Official Symbol	IL4
Synonyms	IL4; interleukin 4; interleukin-4; B cell growth factor 1; B_cell stimulatory factor 1; BCGF 1; BCGF1; BSF1; IL 4; lymphocyte stimulatory factor 1; MGC79402; binetrakin; pitrakinra; IL-4; BSF-1; BCGF-1;
Gene ID	3565
mRNA Refseq	NM_000589
Protein Refseq	NP_000580
MIM	147780

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UniProt ID	P05112

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