

Active GMP Recombinant Human IL7 Protein

Cat. No. IL7-115HG Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant IL7 (NP_000871.1) (Asp26-His177) was expressed with a N-terminal Met in an animal component free process under cGMP guidelines.

Species Human

Source E.coli

ProteinLength 26-177 a.a.

Predicted N Terminal Met

Form Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol and 0.01% Tween80.

Bio-activity Measured in a cell proliferation assay using anti-CD3 antibody activated human peripheral blood mononuclear cell (PBMC). The ED50 for this effect is typically 2-20 ng/ml. The specific activity of Recombinant Human IL-7 is approximately 1.6×10^5 units/ μ g, which is calibrated against human IL-7 WHO Standard (NIBSC code: 90/530).

Molecular Mass The GMP recombinant IL7 consists of 153 amino acids and predicts a molecular mass of 17.5 kDa.

Endotoxin < 0.01 EU per μ g 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	IL7 interleukin 7 [Homo sapiens]
Official Symbol	IL7
Synonyms	IL7; interleukin 7; interleukin-7; IL 7; IL-7;
Gene ID	3574
mRNA Refseq	NM_000880
Protein Refseq	NP_000871
MIM	146660
UniProt ID	P13232

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