

Recombinant Human Interleukin-15/IL-15 Protein (Active)



Catalog Number:PKSH030302

Note: Centrifuge before opening to ensure complete recovery of vial contents.

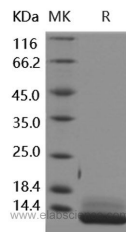
Description

Synonyms	IL-15;Interleukin 15;IL15
Species	Human
Expression Host	E.coli
Sequence	Asn 49-Ser 162
Accession	NP_000576.1
Calculated Molecular Weight	12.8 kDa
Bioactivity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells.The EC50 for this effect is typically 0.8-4 ng/mL.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per µg cytokine as determined by the LAL method.
Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50 mM Tris, 200 mM NaCl, pH 8.0
Reconstitution	Please refer to the printed manual for detailed information.

Data



Background

The protein encoded by IL15 gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukin 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Alternatively spliced transcript variants of this gene have been reported.

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