Active Recombinant Human IL2 (21-153aa), Met tagged

Cat. No. IL2-028E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL2 (Ala21 Thr153, with an Nterminal Met) was expressed in E. coli and produced using nonanimal reagent in an animalfree laboratory.
Species	Human
Source	E.coli
Description	Interleukin2 (IL2) is a Oglycosylated, four µhelix bundle cytokine that has potent stimulatory activity for antigenactivated T cells. It is expressed by CD4+ and CD8+ T cells, µ? T cells, B cells, dendritic cells, and eosinophils. IL2 is best known for its autocrine and paracrine activity on T cells. It drives resting T cells to proliferate and induces IL2 and IL2 Rµ synthesis. It contributes to T cell homeostasis by promoting the Fasinduced death of naïve CD4+ T cells but not activated CD4+ memory lymphocytes. IL2 plays a central role in the expansion and maintenance of regulatory T cells, although it inhibits the development of Th17 polarized cells. Thus, IL2 may be a key cytokine in the natural suppression of autoimmunity.
Nterminal Sequence Analysis	Met
Molecular Mass	15 kDa
Activity	Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is typically 0.075 0.375 ng/mL.

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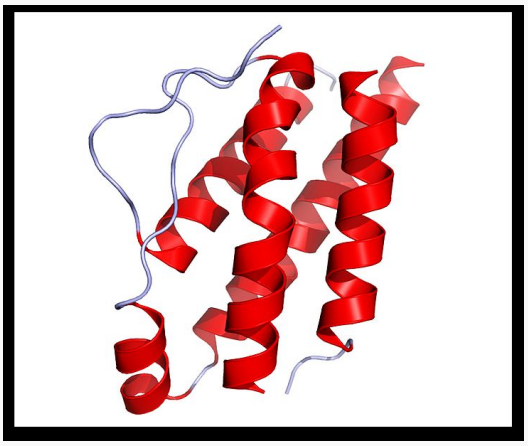
Endotoxin Leve	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDSPAGE under reducing conditions and visualized by silver stain.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.
Reconstitution	Reconstitute at 200 µg/mL in sterile 10 mM Sodium Acetate, pH 4.0.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Storage	Use a manual defrost freezer and avoid repeated freezethaw cycles. 1. 12 months from date of receipt, 20 to 70 °C as supplied. 2. 3 month, 2 to 8 °C under sterile conditions after reconstitution.
Unitprot ID	P60568

GENE INFORMATION

Gene Name	IL2 interleukin 2 [Homo sapiens]
Official Symbol	IL2
Synonyms	IL2; interleukin 2; IL-2; TCGF; lymphokine; interleukin-2; aldesleukin; T cell growth factor; involved in regulation of T-cell clonal expansion
Gene ID	3558
mRNA Refseq	NM_000586

Protein Refseq	NP_000577
MIM	147680
Chromosome Location	4q26-q27
Pathway	Calcium signaling in the CD4+ TCR pathway; Cytokine Signaling in Immune system; Downstream signaling in naive CD8+ T cells; IL-2 Signaling Pathway; Inflammatory Response Pathway; Jak-STAT signaling pathway; T cell receptor signaling pathway
Function	carbohydrate binding; cytokine activity; glycosphingolipid binding; growth factor activity; interleukin-2 receptor binding; kappa-type opioid receptor binding; kinase activator activity
Human Interleukin 2crystal structure.	

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