



Recombinant Human IL-15 (Interleukin-15)

Product Description

Interleukin 15 is a cytokine with structural similarity to IL-2. Like IL-2, IL-15 binds to and signals through the IL-2/IL-15 beta chain (CD122) and the common gamma chain (gamma-C, CD132). IL-15 is secreted by mononuclear phagocytes (and some other cells) following infection by virus(es). This cytokine induces cell proliferation of natural killer cells; cells of the innate immune system whose principal role is to kill virally infected cells. Interleukin 15 (IL-15) regulates T and natural killer (NK) cell activation and proliferation. Survival signals that maintain memory T cells in the absence of antigen are provided by IL-15. This cytokine is also implicated in NK cell development. In rodent lymphocytes, IL-15 prevents apoptosis by inducing an apoptosis inhibitor, BCL2L1/BCL-x(L). IL-15 has been shown to enhance the anti-tumor immunity of CD8+ T cells in pre-clinical models. A phase I clinical trial to evaluate the safety, dosing, and anti-tumor efficacy of IL-15 in patients with metastatic melanoma and renal cell carcinoma (kidney cancer) has begun to enroll patients at the National Institutes of Health.

Purity Confirmation

This was determined by SDS-PAGE.

Activity Assay

Determined by the dose-dependent stimulation of the proliferation of CTLL-2 cells.

Reconstitution Buffer

See Certificate of Analysis for reconstitution instructions and specific concentrations.

Storage

Lyophilized Protein should be stored at -20° or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20° or -70°. Avoid repeated freeze-thaw cycles.

Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically <0.5 ng/mL ED50
Purity	>95%
Endotoxin	<1.0 EU/µg
Molecular Mass	12.8 kDa
Formulation	PBS, pH7.4
Country of Origin	USA

Limited Use and Restrictions

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