

Recombinant Human IL-15 (Interleukin-15)

Product Description

IL-15 is an immunomodulating cytokine that stimulates the proliferation of T lymphocytes and shares many biological properties with IL-2. IL-15 exerts its biological activities primarily on T cells. It is also essential in the development, survival and activation of NK cells. Increased expression of IL-15 has been linked to with rheumatoid arthritis, inflammatory bowel disease, and diseases affiliated with retroviruses HIV and HTLV-I. Human IL-15 is biologically active on mouse cells as measured by the dose-dependent stimulation of the proliferation of mouse CTLL cells. Recombinant Human IL-15 is a 12.9 kDa protein consisting of 115 amino acid residues.

Typical Specifications

Species	Human
Expression	E. coli Cell Expressed
Activity	Typically ≤ 0.5 ng/mL ED ₅₀
Purity	>98%
Endotoxin	<1.0 EU/ μ g
Molecular Mass	12.9 kDa
Formulation	10 mM Sodium Phosphate, pH 8.5
Country of Origin	USA

Purity Confirmation

This was determined by SDS-PAGE gel and HPLC analysis.

Activity Assay

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

AA Sequence

MNWWNVISDL	KKIEDLIQSM	HIDATLYTES
DVHPSCKVTA	MKCFLELQV	ISLESGDASI
HDTVENLIL	ANNSLSSNGN	VTEGCKECE
ELEEKNIKEF	LQSFVHIVQM	FINTS

Reconstitution Buffer

Centrifuge the vial prior to opening.
Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex.

Storage

This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Limited Use and Restrictions

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