

Overview

Synonyms	IL15, IL-T
Description	<p>Interleukin-15 (IL-15) is a cytokine with structural similarity to IL-2. Like IL-2, IL-15 binds to and signals through a complex composed of IL-2/IL-15 receptor beta chain (CD122) and the common gamma chain (gamma-C, CD132). IL-15 is secreted by mononuclear phagocytes (among other cells) following infection by virus. This cytokine induces cell proliferation of natural killer cells, which are cells of the innate immune system whose principal role is to kill virally infected cells. IL-15 can stimulate the proliferation of T-lymphocytes. Stimulation by IL-15 occurs following its interaction with IL-15Rα. This interaction may enhance IL-15α interaction with IL15Rβ c.</p> <p>Recombinant Human Interleukin-15 produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 114 amino acids. A fully biologically active molecule, rhIL-15 has a molecular mass of 12.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P40933
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 0.5 ng/ml, determined by the dose-dependent stimulation of the proliferation of CTLL-2 cells, corresponding to a specific activity of > 2 x 10 ⁶ units/mg.
Sequence	Asn ⁴⁹ -Ser ¹⁶² (Accession#: P40933)

Properties

Measured Molecular Weight	12.8 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Human Interleukin-15 (rhIL-15) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhIL-15 should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

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