

IL-15 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	interleukin 15;IL-15
Protein Construction:	Asn49-Ser162 Expressed with an N-terminal Met
Species:	Human
Expression Host:	E. coli
Accession:	P40933
Molecular Weight:	13.6 kDa (Reducing conditions)

QC Testing

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 > 2.0 × 10 ⁶ units/mg.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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-15's interaction with IL15Rβγc.

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