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AR09050PU-N Recombinant human Interleukin-15 (IL-15) (aa 49-162), His-

tagged

Alternate names: IL-15

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: Interleukin (IL-15) is a pleiotropic cytokine that plays a pivotal role in both innate and

adaptive immunity. IL-15 is unique among cytokines due to its participation in a trans signaling mechanism in which IL-15 receptor alpha (IL-15R alpha) from one subset of cells presents IL-15 to neighboring IL-2R beta/gamma(c)-expressing cells. This newly discovered cytokine is produced by a wide variety of cells and tissues and like IL-2, stimulates the proliferation of T-lymphocytes and induces the generation of cytotoxic

T-lymphocytes (CTLs) and lymphokine-activated killer (LAK) cells.

Uniprot ID: P40933

NCBI: NP 000576.1

GeneID: 3600
Species: Human
Source: E. coli

Format: State: Liquid purified protein

Purity: >95% by SDS PAGE

Buffer System: PBS, pH 7.4, 0.2 mM PMSF, 10% glycerol

Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)

Description: Recombinant human IL-15, fused to His-tag, was expressed in E.coli and purified by

using conventional chromatography after refolding of the isolated inclusion bodies in

a redox buffer. AA Sequence:

MNWVNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLLELQV ISLESGDASI HDTVENLIIL ANNSLSSNGN VTESGCKECE ELEEKNIKEF LQSFVHIVQM FINTS<u>LEHHH HHH</u> **Biological Activity:** Measured in a cell proliferation assay using CTLL2 mouse

cytotoxic

T cells. The ED50 for this effect is < 2.5 ng/ml.

Activity Assay

1. Cell line: CTLL2 (mouse cytotoxic T cell)

2. Maintenance Condition: 10% FBS RPMI 1640 with hIL2 3. Assay Medium: 10% FBS RPMI 1640 without hIL2

4. Cell Density: 2 x 10e4 cells/well (96 well plate, final volume 100ul)

5. Starvation: 24hr, Assay medium

6. Incubation Time: 24hr (after sample treatment)
7. Concentration Range: 0.039 ng/ml - 40 ng/ml

8. Detection Method: MTT assay

Molecular weight: 13.9 kDa (123 aa), confirmed by MALDI-TOF



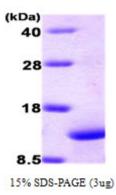
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Storage: Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings: Lorenzen I., et al., (2006). J Biol Chem. Mar 10; 281 (10):6642-7.

Pictures:



Interleukin 15: 15% SDS-PAGE (3 μg)

