

# **Product datasheet for TP728241S**

#### OriGene Technologies, Inc.

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### Recombinant IL-15 (Interleukin-15), Human

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant IL-15 (Interleukin-15), Human

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESGDASIHDTVENLIILANNS LSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFIN TS with polyhistidine tag at the N-terminus.

Tag: His Tag (N-term)

**Predicted MW:** The protein has a calculated MW of 13.7 kDa. The protein migrates as 13 kDa under reducing

condition (SDS-PAGE analysis).

**Purity:** >95% as determined by SDS-PAGE.

Buffer: The protein was lyophilized from a 0.2 μm filtered solution of NaPi buffer, 0.018% SDS, pH

7.5.containing 1X PBS, pH 8.0.

**Bioactivity:** Measure by its ability to induce proliferation in CTLL-2 cells. The ED<sub>50</sub> for this effect is < 3

ng/mL. The specific activity of recombinant human IL-15 is > 2 x 106 IU/mg.

**Endotoxin:** <0.01 EU per 1 μg of the protein by the LAL method.

**Reconstitution Method:** Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the

lyophilized protein in sterile  $H_2O$  to a concentration not less than 100  $\mu g/mL$  and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved.

Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

**Applications:** Cell culture

Storage: Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to

8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -

20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

UniProt ID: P40933

Synonyms: IL-T

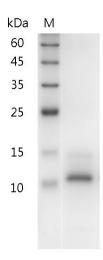




#### **Summary:**

Interleukin-15 (IL-15) is a 14-15 kDa glycoprotein with immune regulatory functions in many diverse cell types. IL-15 can be constitutively expressed in a variety of cell types stored as intracellular protein in the cytoplasm as well as transport to the cell surface, while only secreted from some cell types including monocytes, dendritic cells, epithelial cells, bone marrow stromal cells, and fibroblasts. As a pleiotropic cytokine, IL-15 mediates the crosstalk between innate immunity and adaptive immunity whose principal role is to kill virally infected cells. IL-15 plays a crucial role in the development, differentiation, and survival of NK cells. In monocytes, IL-15 induces the production of IL-8 and monocyte chemotactic protein 1 (MCP-1), which recruits neutrophils and monocytes to sites of infection. IL-15 can also act as a chemo-attractant in T lymphocytes and regulate the differentiation of T lymphocytes.

## **Product images:**



SDS- PAGE analysis of recombinant human IL-15