

## **PRODUCT INFORMATION**

IL-15 **Target** 

**Synonyms** Interleukin-15;IL-15;IL15

Recombinant Human Interleukin-15 is produced Description by our E.coli expression system and the target

gene encoding Asn49-Ser162 is expressed.

**Delivery** In Stock **Uniprot ID** P40933 **Expression Host** E.coli

Tag

**Background** 

Molecular Not available Characterization **Molecular Weight** 12.5 KDa

Greater than 95% as determined by reducing **Purity** 

SDS-PAGE.

Lyophilized from a 0.2  $\mu m$  filtered solution of 20mM PB, 150mM NaCl, pH 7.0. Formulation & Reconstitution

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

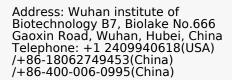
Human Interleukin 15 (IL-15) is a cytokine that regulates T cell and natural killer cell activation and proliferation. IL-15 binds to the alpha subunit of the IL15 receptor (IL-15RA) with high affinity. IL-15 also binds to the beta and gamma chains of the IL-2 receptor, but not the alpha subunit of the IL2 receptor. IL-15 is structurally and functionally

related to IL-2. Both cytokines share some subunits of receptors, allowing them to compete for and negatively regulate each other's activity. The number of CD8 memory T cells is controlled by a balance between IL-15 and IL-2. Despite

their many overlapping functional properties, IL-2 and IL-15 are, in fact, quite distinct players in the immune system. IL-15 is constitutively expressed by a wide variety of cell types and tissues, including monocytes, macrophages and DCs. Mature Human IL-15 shares 70% amino acid sequence identity with Mouse and Rat IL-15.

Usage Research use only Conjugate Unconjugated









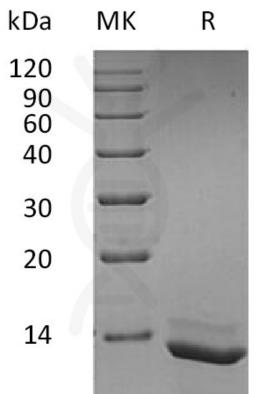


Figure 1. Greater than 95% as determined by reducing SDS-PAGE.

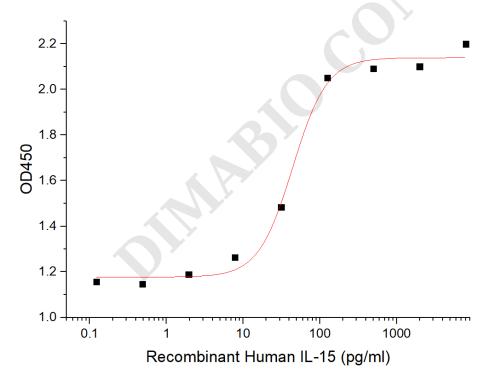


Figure 2. Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The ED50 for this effect is 40-200pg/ml.



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