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CHASELECTION Recombinant Human Interleukin-15 Pro/IL-15 Pro

Catalog Number: CYG018F0XXX/CY018F0XXX

Basic information:

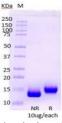
Source: E.coli

Formulation: PBS trehalose, mannitol, pH 7.4

Purity:

≥95 % as determined by SDS-PAGE & HPLC.

SDS-PAGE:



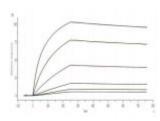
Non reducing and reducing SDS-PAGE showed a protein molecular weight of about 15kDa, and no foreign heteroproteins were found

Endotoxin: < 0.1 EU/µg

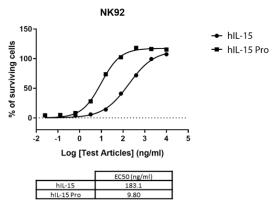
Features:

1. IL-15 Pro has strong affinity

1.1 Bioactivity-SPR



Human CD122(IL-15R-beta) can bind with IL-15-pro with an affinity constant of 0.51nM as determined in a SPR 1.2 Bioactivity-Cell based assay (NK92 cell)



Human IL-15 and human IL-15-Pro stimulates proliferation of NK92 cell. The EC₅₀ for this effect is 183.1ng/mL and 9.8ng/mL, respectively

Reconstitution:

- 1. Before opening, please briefly centrifuge the contents to the bottom;
- 2. It is recommended to initially dissolve in sterile deionized water to an appropriate concentration (recommended concentration is 0.2-1mg/ml);

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3.If further dilution is required, it is recommended to dilute the solution with a solution containing carrier proteins (such as 0.1% BSA, 10% FBS, and 5% HSA).

Shipping & Storage:

The product is shipped with blue ice.

If long-term storage is required, this product should be stored at \leq -20 °C

Please avoid repeated freeze-thaw cycles

- 1. Dry powder can be stored at ≤ -20 for at least 24 months;
- 2. After reconstitution, it can be stored for 1 month under sterile conditions at 2-8 °C;
- 3. After reconstitution, it can be stored for 12 months under sterile conditions at $-20 \sim -70$ °C.

Introduction:

Interleukin-15 (IL-15) is a cytokine with immune regulatory function, mainly secreted by immune cells such as acrophages and monocytes. IL-15, as a multifunctional cytokine, has similar effects to IL-2, such as promoting the proliferation of NK cells, B lymphocytes, and T lymphocytes and maintaining these immune cell functions. At the same time, IL-15 can induce NK cell and T cell development, proliferation, and activation at low doses of exogenous addition. When enhancing the anti-tumor or pathogen resistant function of CD8+ T cells, there is no significant toxic side effect. Moreover, in terms of antitumor function, the NK induced killing activity is 3-4 times higher than IL-2. In the treatment of solid tumors, it is also an effective candidate factor for inhibiting the growth of broad-spectrum solid tumors that are resistant to IL-2.

The wild-type IL-15 needs to rely on Sushi domain to perform its f unctions. The activity of Chaselection hIL-15Pro is more than 20 times higher than that of wild-type IL-15 without relying on Sushi-domain. At the same time, its high stability solves the problem of IL-15 easily forming inactive isomers.

