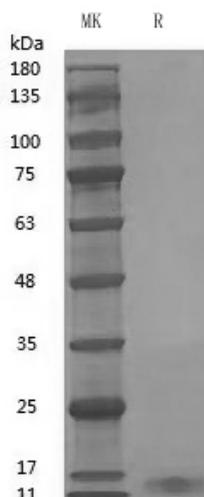


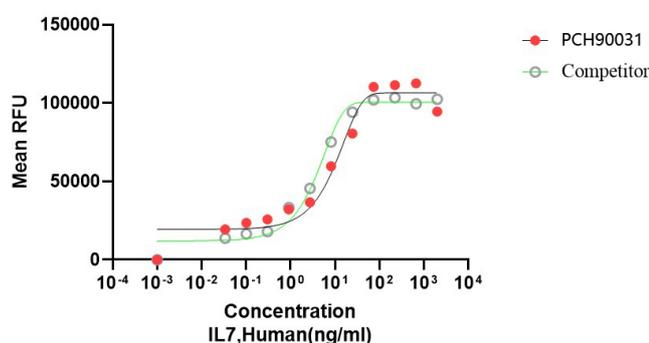
Summary

| | |
|------------------------------|---|
| Name | IL-7 |
| Purity | Greater than 95% as determined by reducing SDS-PAGE |
| Endotoxin level | ≤10 EU/mg |
| Construction | Recombinant Human IL-7 is produced by our Mammalian cell expression system and the target gene encoding Asp26-His177 is expressed. |
| Accession # | P13232 |
| Tag | Tag free |
| Host | Mammalian cell |
| Species | Human |
| Predicted MW | 17.3 kDa |
| Form | Lyophilized |
| Buffer | PBS,5% mannitol and 0.01% Tween 80, pH7.4 |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. |
| Stability&Storage | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| Reconstitution | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

SDS-PAGE image



Bioactivity image



The ED50 for this effect is $\leq 30\text{ ng/ml}$.

Background

Alternative Names

Interleukin-7; IL-7; IL7

References

Human Interleukin 7 (IL-7) is a potent lymphoid cell growth factor stimulating the proliferation of lymphoid progenitors. IL7 can associate with the hepatocyte growth factor (HGF) to form a hybrid cytokine that functions as a pre-pro-B cell growth-stimulating factor. Human IL7 cDNA encodes a 177 amino acid precursor protein containing a 25 amino acid signal peptide and a 152 amino acid mature protein. Human and mouse IL7 share 65% sequence identity in the mature region and both exhibit cross-species activity. IL-7 signals via IL-7 receptor (IL7R) activating multiple pathways including JaK/STAT and PI3K/AKT, which regulate lymphocyte survival, glucose uptake,

Product Name: GMP Recombinant Human IL-7
Catalog#: PCH90031



proliferation, and differentiation. IL-7 is also associated with cytoplasmic IL2-R gamma for signal transduction.

Note

For research use only .