

# Human IL-7, Tag Free Protein

## HA210815



<b>Product name:</b>	Human IL-7, Tag Free
<b>Species reactivity:</b>	Human
<b>Bio-Activity:</b>	Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBL). The ED50 for this effect is 0.02-0.1 ng/mL.
<b>Protein construction description:</b>	A DNA sequence encoding the human IL-7 protein (P13232-1) (Asp 26-His 177) was expressed with tag free.
<b>Background:</b>	Hematopoietic cytokine that plays an essential role in the development, expansion, and survival of naive and memory T-cells and B-cells thereby regulating the number of mature lymphocytes and maintaining lymphoid homeostasis. Mechanistically, exerts its biological effects through a receptor composed of IL7RA subunit and the cytokine receptor common subunit gamma/CSF2RG. Binding to the receptor leads to activation of various kinases including JAK1 or JAK3 depending on the cell type and subsequently propagation of signals through activation of several downstream signaling pathways including the PI3K/Akt/mTOR or the JAK-STAT5.
<b>Purity:</b>	>95% as determined by SDS-PAGE.
<b>Endotoxin:</b>	Less than 1.0 EU per µg by the LAL method.
<b>Fragment region:</b>	IL-7 (26-177)
<b>Source:</b>	HEK293
<b>Accession:</b>	P13232-1
<b>Predicted molecular mass:</b>	17.7 kD
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
<b>Reconstitution:</b>	Reconstitute at 250 µg/ml in sterile water.
<b>Storage:</b>	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

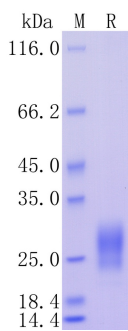
Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

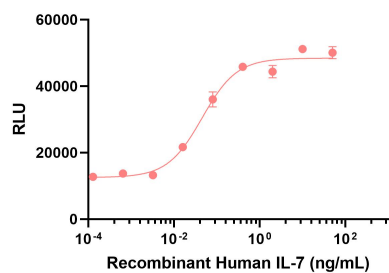
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**Fig1:** Protein on SDS-PAGE under reducing (R) condition.



**Fig2:** Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBL). The ED<sub>50</sub> for this effect is 0.02-0.1 ng/mL.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".