

# Human IL-7 Recombinant Protein, PeproTech®

## Product Details

Size	2 x 500 µg
Species	Human
Published Species	Dog, Rabbit, Rat, Non-human primate, Virus, Hamster, Human, Mouse
Expression system	E. coli
Amino acid sequence	MDCDIEGKDG KQYESVLMVS IDQLDSMKE IGSNCLNNEF NFFKRHCDA NKEGMFLFRA ARKLRQFLKM NSTGDFDLHL LKVSEGTTIL LNCTGQVKGR KPAALGEAQP TKSLEENKSL KEQKKLNDLC FLKRLLEIK TCWNKILMGT KEH
Molecular weight	17.5 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	The ED50 was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is 0.5 ng/ml, corresponding to a specific activity of 2 x 10 <sup>6</sup> units/mg.
Conjugate	Unconjugated
Form	Lyophilized
Purification	HPLC, SDS-PAGE
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Functional Assay (FN)	Assay-dependent	-
In vitro Assay (IV)	-	285 Publications
Miscellaneous PubMed (Misc)	-	23 Publications

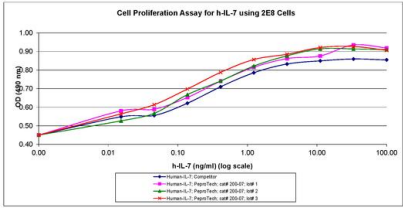
## Product Specific Information

200-07-1MG will be provided as 2 x 500 µg (200-07-500UG).

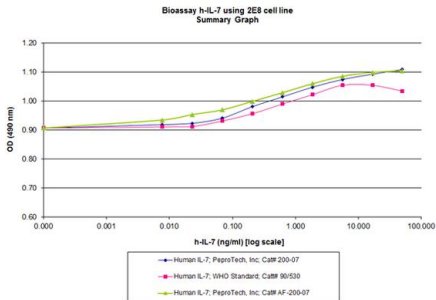
Recombinant Human IL-7 is a 17.5 kDa protein containing 153 amino acid residues.

This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

Product Images For Human IL-7 Recombinant Protein, PeproTech®



**Human IL-7 Protein (200-07-1MG) in FN**  
Bioassay analysis of Human IL-7 Recombinant Protein, PeproTech® (Product # 200-07-1MG).



**Human IL-7 Protein (200-07-1MG) in FN**  
WHO Comparison of Human IL-7 Recombinant Protein, PeproTech® (Product # 200-07-1MG).

In vitro Assay (285)

British journal of haematology	Year 2023
<b>Germline Neurofibromin 1 mutation enhances the anti-tumour immune response and decreases juvenile myelomonocytic leukaemia tumourigenicity.</b>	Species Human
"200-07 was used in In vitro experiments to demonstrate that germline NF1 mutations alone cannot directly drive JMML development and suggest a potential cell immunotherapy for JMML patients."	
Authors: Wang W,Li X,Qin X,Miao Y,Zhang Y,Li S,Yao R,Yang Y,Yu L,Zhu H,Song L,Mao S,Wang X,Chen J,Feng H,Li Y	
Clinical & translational immunology	Year 2022
<b>Toll-like receptor 7/8-matured RNA-transduced dendritic cells as post-remission therapy in acute myeloid leukaemia: results of a phase I trial.</b>	Species Human
Authors: Lichtenegger FS,Schnorfeil FM,Rothe M,Deiser K,Altmann T,Bücklein VL,Köhnke T,Augsberger C,Konstandin NP,Spiekermann K,Moosmann A,Boehm S,Boxberg M,Heemskerk MH,Goerlich D,Wittmann G,Wagner B,Hiddemann W,Schendel DJ,Kvalheim G,Bigalke I,Subklewe M	

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Miscellaneous PubMed (23)

Frontiers in cell and developmental biology	Year 2022
<b>Adipocyte-mediated epigenomic instability in human T-ALL cells is cytotoxic and phenocopied by epigenetic-modifying drugs.</b>	Species Human
"200-07 was used in Sample Preparation (FC/FACS) to investigate T-cell acute lymphoblastic leukemia relationship with obesity in murine models."	
Authors: Lee M,Geitgey DK,Hamilton JAG,Boss JM,Scharer CD,Spangle JM,Haynes KA,Henry CJ	
JCI insight	Year 2022
<b>JAK inhibitor blocks COVID-19 cytokine-induced JAK/STAT/APOL1 signaling in glomerular cells and podocytopathy in human kidney organoids.</b>	Species Human
"200-07 was used in Cell Culture to investigate mechanisms of COVID-19 associated nephropathy."	
Authors: Nystrom SE,Li G,Datta S,Soldano KL,Silas D,Weins A,Hall G,Thomas DB,Olabisi OA	

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