

Human IL-12 p70 Recombinant Protein, PeproTech®

Product Details

Size	50 µg
Species	Human
Published Species	Rat, Bacteria, Hamster, Human, Mouse
Expression system	CHO cells
Amino acid sequence	p35 subunit: RNLPVATPDP GMFPC LHHSQ NLLRAVSNML QKARQTLEFY PCTSEEIDHE DITKDKTSTV EACLPLELTK NESCLNSRET SFITNGSCLA SRKTSFMMAL CLSSIYEDLK MYQVEFKTMN AKLLMDPKRQ IFLDQNMLAV IDELMQALNF NSETVPQKSS LEEPDFYKTK IKLCILLHAF RIRAVTIDRV MSYLNAS p40 subunit: IWELKKDVYV VELDWYPDAP GEMVVLTCDT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHSL LLHKKEDGIW STDILKDQKE PKNKTFLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCSA ATLSAERVGR DNKEYEYSVE CQEDSACPAA EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYYSSSWSEW ASVPCS
Molecular weight	75 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	Assay 1: Determined by its ability to induce IFN-gamma production from NK cells co-stimulated with IL-18. The expected ED50 is 1.0 ng/ml, corresponding to a specific activity of 1×10^6 units/mg. Assay 2: Determined by its ability to increase IFN-gamma production by anti-TCR mAb-stimulated PBMCs. The expected ED50 for this effect is 4.0-8.0 ng/ml.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	Assay-dependent	1 Publication
Neutralization (Neu)	-	1 Publication
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	171 Publications
Miscellaneous PubMed (Misc)	-	7 Publications

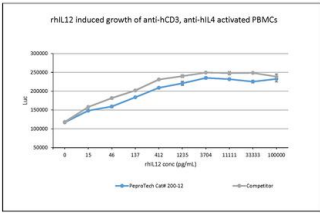
Product Specific Information

200-12-1MG will be provided as 2 x 500 µg (200-12-500UG).

Recombinant Human IL-12 is a 75.0 kDa heterodimeric glycoprotein consisting of disulfide-linked 35 kDa (p35) and 40 kDa (p40) subunits (503 total 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-12 p70 Recombinant Protein, PeproTech®



Human IL-12 p70 Protein (200-12-50UG) in Functional
Bioassay analysis of Human IL-12 p70 Recombinant Protein, PeproTech®
(Product # 200-12-1MG).

Flow Cytometry (1)

Scientific reports	Year 2015
MicroRNA transcriptomes of distinct human NK cell populations identify miR-362-5p as an essential regulator of NK cell function.	Species Human
Authors: Ni F,Guo C,Sun R,Fu B,Yang Y,Wu L,Ren S,Tian Z,Wei H	

ELISA (1)

The European respiratory journal	Year 2004
CCR4 ligands are up-regulated in the airways of atopic asthmatics after segmental allergen challenge.	Species Human
Authors: Pilette C,Francis JN,Till SJ,Durham SR	

Neutralization (1)

Blood	Year 2006
Multidirectional interactions are bridging human NK cells with plasmacytoid and monocyte-derived dendritic cells during innate immune responses.	Species Human
Authors: Della Chiesa M,Romagnani C,Thiel A,Moretta L,Moretta A	

In vitro Assay (171)

International journal of biological sciences	Year 2023
Targeting Aquaporin-3 Attenuates Skin Inflammation in Rosacea.	Species Human
"200-12 was used in Cell Culture to reveal that AQP3-mediated activation of NF-B in keratinocytes and activation of STAT3 in CD4+ T cells acted synergistically and contributed to the inflammation in rosacea."	
Authors: Chen M,Peng Q,Tan Z,Xu S,Wang Y,Wu A,Xiao W,Wang Q,Xie H,Li J,Shi W,Deng Z	

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Misc (7)

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