

Recombinant Human IL12 Protein

Cat. No. IL12-158H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL12(Arg23-Ser219&Ile23-Ser328) was produced in HEK293.
Species	Human
Source	HEK293
ProteinLength	Arg23-Ser219&Ile23-Ser328
Description	IL-12 is involved in the differentiation of naive T cells into Th1 cells. It is known as a T cell-stimulating factor, which can stimulate the growth and function of T cells. It stimulates the production of interferon-gamma (IFN- γ) and tumor necrosis factor-alpha (TNF- α) from T cells and natural killer (NK) cells, and reduces IL-4 mediated suppression of IFN- γ . T cells that produce IL-12 have a coreceptor, CD30, which is associated with IL-12 activity. IL-12 plays an important role in the activities of natural killer cells and T lymphocytes. IL-12 mediates enhancement of the cytotoxic activity of NK cells and CD8+ cytotoxic T lymphocytes.
Form	Lyophilized from a 0.2 μ m filtered solution of PBS,pH7.4.
AA sequence	RNLPVATPDPGMFPC LHHSQNLLRAVS NMLQKARQTLEFY PCTSEEIDHEDITKDKT STVEACL P LELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQV EFKTMNAKLLMDPKRQ IFLDQNMLAVIDELMQALNFNSETVPQKSSLEEPDFYKTKI KLCILLHAFRIRAVTIDRVMSYLN AS&IWELKKDVYVVELD WYPDAPGEMVVLTCDT PEEDGITWTL DQSSEVLGSGKTLTIQVKEFGD AGQYTCHKGGEVLSHSLLLHKKKE

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DGIWSTDILKDQKEPKNKTFLRCEAKNYSGRFTCWWLTTIS TDLTFSVKSSRGSSD
PQGVTCGAATLSAERVGRDNKEYEYSVEQCEDSACPAAEESLPIEVMVDA VHKLK
YENYTSSFFIRDIIKPDPPKNLQLKPLKNSRQVEVSWEYPDTWSTPHSYFSLTFCVQ
VQG KSKREKKDRVFTDKTSATVICRKNASISVRAQDRYSSSWSEWASVPCS

Endotoxin

Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.

Purity

Greater than 95% as determined by reducing SDS-PAGE.

Storage

Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days.
Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
It is not recommended to reconstitute to a concentration less than 100 µg/ml.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping

The product is shipped at ambient temperature.

