

Recombinant Human Interleukin-12 (IL-12)

CATALOG #:	4161-10	10 µg
	4161-100	100 µg
SOURCE:	CHO cells (Chinese Hamster Ovarian Cells)	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per µg of IL-12.	
MOL. WEIGHT:	75.0 kDa	
FORMULATION:	Sterile filtered and lyophilized in 0.5X PBS, pH 7.2	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in 1X PBS (pH 7.2-7.4) to a concentration of 0.2 mg/ml. The solution can then be diluted into other aqueous buffers and stored at 4 °C for 1 week or -20 °C for future use.

STORAGE CONDITIONS:

The lyophilized human IL-12 is best stored desiccated below 0 °C. Reconstituted IL-12 should be stored at working aliquots at -20 °C.

DESCRIPTION:

IL-12 is a potent regulator of cell mediated immune responses and induces IFN- γ production by NK and T cells. It is produced by activated monocytes/macrophage cells, B-lymphocytes, and connective tissue type mast cells. Among its biological activities, IL-12 promotes the growth and activity of activated NK, CD4+, and CD8+ cells and induces the development of IFN- γ producing Th1 cells. Recombinant human IL-12 is a 75 kDa heterodimeric glycoprotein consisting of disulfide-linked 35 kDa (p35) and 40 kDa (p40) subunits (503 total amino acid residues).

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the induction of IFN- γ production from murine splenocytes co-stimulated with IL-12 is ≤ 0.1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg.

FOR RESEARCH USE ONLY! Not to be used on humans.

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- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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- Mammalian Cell Extraction Kit
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