

Interleukin-12 Human Chinese Hamster Ovary Cells (CHO)

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: Chinese Hamster Ovary Cells (CHO)	RBG10012002	(2 µg)
Species: Human	RBG10012010	(10 µg)
Other names: IL-12, Interleukin-12 subunit p35, p40, p70, Cytotoxic lymphocyte maturation factor , CLMF, NKSF, natural killer cell stimulatory factor	RBG10012100	(100 µg)

Description

IL-12 is a potent regulator of cell-mediated immune responses and it 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 75.0 kDa heterodimeric glycoprotein consisting of disulfide-linked 35 kDa (p35) and 40 kDa (p40) subunits (503 total amino acid residues).

Research topic

Animal studies, Cytokines and chemokines and related molecules, Oncology

Source

Chinese Hamster Ovary Cells (CHO)

Purity

98%

Biological Activity

The ED₅₀ was determined by the induction of IFN- γ ; from NK cells co-stimulated with IL-18 is 1.0 ng/ml, corresponding to a specific activity of 1x10⁶ units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 1x PBS, pH 7.2-7.4 to a concentration of 0.2 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

-20°C

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