Interleukin-12 Murine Chinese Hamster Ovary Cells (CHO)

Product Data Sheet

Type: Recombinant
Source: Chinese Hamster Ovary Cells (CHO)
Species: Murine
Other names: IL-12, Interleukin-12 subunit p35, p40, p70, Cytotoxic lymphocyte maturation factor , CLMF, NKSF, natural killer cell stimulatory factor

Cat. No.:

RBG20012002	(2 µg)
RBG20012010	(10 µg)
RBG20012100	(100 µg)

Description

IL-12 is a potent regulator of cell-mediated immune responses and it induces IFN-? 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-?-producing Th1 cells. Recombinant Murine IL-12 is a 75.0 kDa heterodimeric glycoprotein consisting of disulfide-linked 35 kDa (p35) and 40 kDa (p40) subunits (506 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

Assay #1: The ED_{50} was determined by the stimulation of IFN-gamma production by murine splenocytes co-stimulated with IL-18 is < 0.1 ng/ml, corresponding to a specific activity of > 1×10^7 units/mg. Assay #2: Determined by its ability to stimulate the proliferation of 2D6 cells. The expected ED_{50} is ?0.1ng/ml, corresponding to a specific activity of ?1×10^7 units/mg.

Endotoxin

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

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 1× PBS, pH 7.2-7.4 to a concentration of 0.1-1.0 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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