

Active GMP Recombinant Human IL12 Protein

Cat. No. IL12-01HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IL12 protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
Description	Interleukin-12 (IL-12) is a cytokine with a wide range of biological activities and is mainly produced by activated inflammatory cells. However, it mainly acts on lymphocytes. IL-12 is a determinant of the Th1 cellular immune response and effectively promotes the production of Th1-like cytokines such as IFN-γ, and on the other hand inhibits the production of Th2-like factors such as IL-4 and IL-13, thereby suppressing the Th2-type response. reduction or absence of IL-12 results in a Th2-dominant immune response. In addition, IL-12 induces the production of a variety of cytokines, such as IFN-γ and IL-10. IL-12 is the most potent cytokine that induces the production of IFN-γ by T lymphocytes, especially activated T cells and NK cells, and many of the in vivo effects of IL-12 are exerted through the induction of IFN-γ. The biological activity of IL-12 is exerted through the production of IFN-γ by T cells and IL-12 receptors on NK cells are mediated.
Form	Lyophilized powder
Endotoxin	<20 EU/mg

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Bio-activity	>1.0 x 10 ⁶ IU/mg
Purity	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)
Storage	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhIL12 be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

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