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IL 12 Rat

Catalog #:CYPS-397

For research use only.

Description: Interleukin-12 Rat Recombinant produced in Sf9 insect cells is a glycosylated disulfide linked heterodimeric polypeptide containing 503 amino acids and having a molecular weight of 70 kDa comprised of disulfide-bonded 35 kDa (p35) and 40 kDa (p40) subunits.The IL-12 is purified by proprietary chromatographic techniques.

Synonyms:NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Edodekin-alpha, IL-12.

Source: Baculovirus.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and found to be Arg-Val-Ile-Pro-Val at the p35 subunit and Met-Thr-Glu-Leu-Glu at the p40 subunit.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The protein (1mg/ml) was lyophilized with no additives.

Stability:
Lyophilized Interleukin-12 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL12 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized Interleukin 12 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Introduction:
IL-12 is a heterodimeric cytokine that stimulates the production of interferon gamma from T-cells and natural killer cells, and also induces differentiation of Th1 helper cells. It is an initiator of cell-mediated immunity.

Biological Activity:
ED50 range = 0.01-0.05 ng/ml corresponding to a specific activity of 20,000,000-100,000,000IU/mg as determined by the dose dependent secretion of interferon-gamma from PHA and IL-2 activated mouse splenocytes that have been costimulated with PMA. Optimal concentration for individual application should be determined by a dose response assay.

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