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rHuIL-6

Recombinant Human Interleukin-6

Product	Cat#	Package size
Recombinant Human Interleukin-6	**C6026.0005**	**5µg**
Recombinant Human Interleukin-6	**C6026.0020**	**20µg**
Recombinant Human Interleukin-6	**C6026.1000**	**1mg**

Synonyms: B cell differentiation factor, BCDF, BSF-2, HPGF, HSF, MGI-2, B-cell stimulatory factor 2, Hybridoma growth factor, CTL differentiation factor, CDF, IL-6, HGF.

Product description

Il-6 is a cytokine with a wide variety of biological functions: it plays an essential role in the final differentiation of b-cells into ig-secreting cells, it induces myeloma and plasmacytoma growth, it induces nerve cells differentiation, in hepatocytes it induces acute phase reactants.

Recombinant Human IL-6 produced in *E.coli* is a single, non-glycosylated polypeptide of 184 amino acids and a molecular weight of 21kDa.

Source: *Escherichia coli*

Biological activity

The ED50 as determined by the dose-dependent stimulation of murine 7TD1 cells is less than 0.1ng/mL, corresponding to the specific activity of 1.0 x 10,000,000 Units per mg.

Purity: Greater than 97% by SDS-PAGE and HPLC analysis.

Amino acid sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Pro-Val-Pro-Pro.

Formulation: Lyophilized from a 0.2um filtered concentrated (1mg/mL) solution in PBS, pH7.4

Solubility / Reconstitution

It is recommended to briefly centrifuge the vial prior to opening to bring the contents to the bottom. Reconstitute the lyophilised rHuIL-6 in sterile water not less than 100µg/mL, which can then be further diluted to other aqueous solutions.

Stability

Lyophilised rHuIL-6 although stable at room temperature for 3 weeks, should be stored desiccated at -20°C. Reconstituted rHuIL-6 is best stored refrigerated at +2°C to +8°C between 2-7 days and at -20°C for long term storage. For long term storage it is recommended to add a carrier protein (e.g., 0.1% HSA or BSA).

Please prevent from repeated freeze-thaw cycles.

Protein Content

Protein quantitation was carried out by two independent methods
1. UV spectroscopy at 280 nm using the absorbency value of 0.47 as the extinction coefficient for a 0.1% (1mg/mL) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

2. Analysis by RP-HPLC, using a standard solution of IL-6 as a Reference Standard.

Usage

This product is **for research/laboratory usage only**. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.

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