

Recombinant Human IL-6 (carrier-free)

Catalog # / Size: 570802 / 10 µg
570804 / 25 µg
570806 / 100 µg
570808 / 500 µg

Source: Human IL-6, amino acids Pro29-Met212 (Accession # NM_000600) was expressed in *E. coli*.

Molecular Mass: The 185 amino acid N-terminal methionylated recombinant protein has a predicted molecular mass of 21,041 Da. The DTT-reduced and non-reduced protein migrate at approximately 23kDa by SDS-PAGE.

Purity: Purity is >98%, as determined by Coomassie stained SDS-PAGE.

Endotoxin Level: Endotoxin level is <0.1 EU/µg (<0.01ng/µg) protein as determined by the LAL method.

Activity: The ED₅₀ is 4-20 pg/ml, corresponding to a specific activity of 0.5-2.5 X10⁸ units/mg, as determined by a dose dependent stimulation in a 7TD1 cell proliferation assay.

Preparation: 10-100µg sizes are bottled at 200µg/ml. 500µg and larger sizes are bottled at the concentration indicated on the vial.

Formulation: 0.22 µm filtered protein solution is in 10mM NaH₂PO₄, 150mM NaCl, pH 7.2.

Storage: Unopened vial can be stored at 4°C for three months, at -20°C for six months, or at -70°C for one year. For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10µg/mL in buffer containing carrier protein such as 1% BSA or HSA or 10% FBS. For long term storage, aliquot into polypropylene vials and store in a manual defrost freezer. **Avoid repeated freeze/thaw cycles.**

Applications:

Applications: Bioassay

Recommended Usage: Use when high specific biological activity is required.

Description: IL-6 is a potent lymphoid cell growth factor that stimulates the growth and survival of certain B cells and T cells. IL-6 plays a role in host defense, acute phase reactions, immune response, and hematopoiesis. IL-6 is expressed by T cells, B cells, monocytes, fibroblasts, hepatocytes, endothelial cells and keratinocytes.

Antigen References:

1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.
2. Hirano T. 1998. *Intl. Rev. Immunol.* 16:249.
3. Patterson P. 1992. *Curr. Opin. Neurobiol.* 2:94.
4. Van Oers M, *et al.* 1993. *Ann. Hematology* 66:219.



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