

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Interleukin-6 (IL6) is a multifunctional protein that plays an important role in host defense, acute phase reactions, immune responses and hematopoiesis. IL6 is expressed by a variety of normal and transformed cells including T-cells, B-cells, monocytes/macrophages, fibroblasts, hepatocytes, keratinocytes, astrocytes, vascular endothelial cells and various tumor cells. The production of IL6 is upregulated by numerous signals, including mitogenic or antigenic stimulation, LPS, calcium ionophore, IL1, IL2, IFN, TNF, PDGF, and viruses. IL6 expression in monocytes is inhibited by IL4 and IL13.

Catalog Number	1310-06
Product Name	IL6, Murine Recombinant Murine Interleukin-6 IL6 Interferon, Beta-2 (IFNB2) B-cell Stimulatory factor 2 (BSF2) Hybridoma Growth Factor (HGF)
Source	<i>Escherichia coli</i>
MW	~21.7 kDa (188 amino acids)
Sequence	MFPTSQVRRG DFTEDTTPNR PVYTTSQVGG LITHVLWEIV EMRKELCNGN SDCMNDDAL AENNLKLEI QRNDGICYQTG YNQEICLLKI SSGLEYHSY LEYMKNNLKD NKKDKARVLQ RDTETLIHIF NQEVKDLHKI VLPTPISNAL LTDKLESQKE WLRTKTIQFI LKSLEEFKLV TLRSTRQT
Accession Number	P08505
Purity	>97% by SDS and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by the dose dependent murine 7TD1 cells is less than 0.02 ng/ml, corresponding to a specific activity of $>5.0 \times 10^7$ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.