

Recombinant Rat Interleukin-6 (rr IL-6)

Interleukin-6 is a pleiotropic cytokine that plays important roles in acute phase reaction, antigen specific immune responses and hematopoiesis. Main sources of Interleukin-6 are monocytes, T-cells, fibroblasts and endothelial cells. IL-6 is a major mediator of acute phase reaction, it functions as B-cell differentiation factor (BCDF) and induces the proliferation of thymocytes. Moreover it has neurotrophic activity on certain neuronal cell types. IL-6 is also known to act as autocrine growth modulator of some tumor types.

Recombinant rat IL-6 produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 187 amino acids and having a molecular mass of 21.7 kDa.

Synonyms :	BCDF, BSF-2, IFN-beta-2, HPGF, HSF
Source:	<i>Escherichia coli</i>
AA Sequence:	MFPTSQVRRG DFTEDTTHNR PVYTTSQVGG LITYVLREIL EMRKELCNGN SDCMNSDDAL SENNLKLPEI QRNDGCFQTG YNQEICLLKI CSGLLEFRFY LEFVKNNLQD NKKDKARVIQ SNTETLVHIF KQEIKDSYKI VLPTPTSNAL LMEKLESQKE WLRTKTIQLI LKALEEFLKV TMRSTRQT
Formulation:	Lyophilisate from a 0.22 µm filtered carrier free solution in 25 mM Tris, 250 mM NaCl, pH 8.0
Reconstitution:	Reconstitute in sterile endotoxin free water not less than 100 µg/ml
Stability:	The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rr IL-6 is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.
Biological Activity:	Determined by measuring the dose- dependant proliferation of IL-6 dependant B9 cells the ED ₅₀ is 0.03 – 0.1 ng/ml. A concentration range of 0.1 to 10.0 ng/ml is effective for most in vitro applications.
Purity:	95% (verified by SDS-PAGE / silver stain)
Endotoxicity:	The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method
Order N°:	rr IL-6+Size available sizes: 2 µg, 10 µg, 50 µg

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