



Recombinant Rat IL-6
(Interleukin-6)

Catalog Number: 300-09
Accession Number: P20607

Specifications and Uses:

Alternate Names: IFN- β 2, B-cell Differentiation Factor, BSF-2, HSF, MGI-2

Description:

Interleukin 6 (IL-6) is an important pro-inflammatory and anti-inflammatory cytokine expressed by T cells, macrophages and muscle cells. IL-6 signals through a receptor complex containing two receptors, IL-6R α and gp130. IL-6 has an important function in promoting fever and can serve to stimulate an immune response to trauma. IL-6 is often used for growth of hybridoma cell lines. Human IL-6 is active on mouse and rat cells. Recombinant rat IL-6 is a non-glycosylated protein, containing 187 amino acids, with a molecular weight of 21.7 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant rat IL-6 is lyophilized from 0.1% TFA.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with **10 mM HCl** at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically \geq 90%) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically \leq 1 EU/ μ g protein.

Biological Activity:

The activity is determined by a dose-dependent stimulation of mouse 7TD1 cells and is typically less than 0.01 ng/mL.

AA Sequence:

MFPTSQVRRG DFTEDTTHNR PVYTTSQVGG LITYVLREIF EMRKELCNGN SDCMNSDDAL SENNLKLPEI
QRNDGCFQTG YNQEICLLKI CSGLLEFRFY LEFVKNNLQD NKKDKARVIQ SNTETLVHIF KQEIKDSYKI
VLPTPTSNAL LMEKLESQKE WLRTKTIQLI LKALEEFLKV TMRSTRQT

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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