

BACKGROUND:

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 and having a molecular mass of 21.7 kDa.

Cat. No.:
RP3009AF

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

AA Sequence:

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

TECHNICAL INFO

Source:
E. coli

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

Formulation:
0.1% Trifluoroacetic Acid (TFA) + 2:1 mannitol to protein

Stability:
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 at 0.1 mg/ml in sterile 10 mM HCl, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Animal Component-Free
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

