

GFR9AF Recombinant Rat IL-6 (Animal-Free)

Description

Interleukin-6 (IL-6) is a cytokine that is expressed by T cells, macrophages, and muscle cells. IL-6 acts to stimulate an immune response upon infection or trauma. IL-6 has both pro-inflammatory and anti-inflammatory functions and signals through the cell-surface type 1 cytokine receptor complex containing the IL-6Ra and gp130 chains. Human IL-6 is active on mouse and rat cells.

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

Length	188 aa
Molecular Weight	21.9 kDa
Source	E. coli
Accession Number	P20607
Purity	≥90% determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names	Interleukin-6, interleukin 6, IL6, IL 6, IFN-β2, interferon β 2, B-cell differentiation factor, BSF-2, HSF, MGI-2, CTL differentiation factor
Biological Activity	Rat IL-6 is fully biologically active when compared to standard. The activity is determined by the ability to induce B9 cells proliferation and it is typically less than 2 ng/ml. This corresponds to an expected specific activity of 5.0 x 10 ⁵ units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA) and mannitol (2:1 mannitol to protein ratio)
AA Sequence	MFPTSQVRRG DFTEDTTHNR PVYTTSQVGG LITYVLREIL EMRKELCNGN SDCMNSDDAL SENNLKLPET QRNDGCFQTG YNQEICLLKI CSGLEFRFY LEFVKNNLQD NKKDKARVIQ SNTETLVHIF KQEIKDSYKI VLPTPTSNAI LMEKLESQKE WLRTKTIQLI LKALEEFLKV TMRSTRQT

Preparation and 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 sterile 10 mM HCl at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.