

Recombinant Human IL-6

Catalog # EPT155

Expression Host E.coli

DESCRIPTION Recombinant Human Interleukin-6 is produced by our

E.coli expression system and the target gene encoding

Val30-Met212 is expressed.

Accession P05231

Synonyms Interleukin-6; IL-6; B-Cell Stimulatory Factor 2; BSF-2;

CTL Differentiation Factor; CDF; Hybridoma Growth

Factor; Interferon Beta-2; IFN-Beta-2; IL6; IFNB2

Mol Mass 20.9 KDa

AP Mol Mass 20 KDa, reducing conditions

Purity Greater than 95% as determined by reducing

SDS-PAGE.

Endotoxin Less than 0.001 ng/ μ g (0.01 EU/ μ g) as determined by

LAL test.

FORMULATION Lyophilized from a 0.2 µm filtered solution of PBS, pH

7.4.

RECONSTITUTION Always centrifuge tubes before opening.Do not mix by



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vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

STORAGE

Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

BACKGROUND

Cytokines of the IL6/GCSF/MGF family are glycoproteins of about 170 to 180 amino acid residues that contain four conserved cysteine residues involved in two disulfide bonds. They have a compact, globular fold (similar to other interleukins), stabilized by the 2 disulfide bonds. One half of the structure is dominated by a 4 alpha-helix bundle with a left-handed twist; the

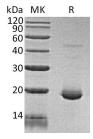


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helices are anti-parallel, with 2 overhand connections, which fall into a 2-stranded anti-parallel beta-sheet. The fourth alpha helix is important to the biological activity of the molecule. Interleukin-6 (IL-6) is an important proinflammatory and immunoregulatory cytokine expressed by various cells. Interleukin-6 has been shown to inhibit the growth of early stage and to promote the proliferation of advanced stage melanoma cells in vitro.



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