

## Recombinant Human IL-6

Catalog No : PMK2203

**Known As:** 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

### PROPERTIES

Description	Recombinant Human Interleukin-6 is produced by our E.coli expression system and the target gene encoding Val30-Met212 is expressed.
Accession	P05231
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM PB, 5% Sucrose, 4% Mannitol, 0.05% PS-80, pH7.4.
Size	10 $\mu$ g/50 $\mu$ g/500 $\mu$ g/1mg
Purity	> 95%
Endotoxin	< 0.01 EU/ $\mu$ g as determined by LAL test.
Predicted Mol Mass	20.9 KDa
Apparent Mol Mass	20 KDa, reducing conditions
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/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 $\leq -20^{\circ}\text{C}$ , stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ 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 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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