

# Product Data Sheet

## Recombinant Human IL-6 (ELISA Std.)

**Catalog # / Size:** 570809 / 4 pack

**Source:** The mature form of human IL-6, amino acids Pro 29-Met 212 (Accession # NM\_000600) was expressed in *E. coli*.

**Molecular Mass:** The 185 amino acid N-terminal methionylated recombinant protein has a predicted molecular mass of 21,041 Da. The DTT-reduced and the non-reduced protein migrates at approximately 24kDa by SDS-PAGE.

**Purity:** Purity is >98% as determined by SDS PAGE, Coomassie stained with Invitrogen SimplyBlue SafeStain.

**Preparation:** ELISA Standard 4-Pack contains four vials of recombinant human IL-6 at >5 ng per vial. Recommended for ELISA application only. Standards are calibrated against a BioLegend Master Calibrator.

**Formulation:** Lyophilized in 0.22µm filtered PBS, pH 7.2, containing 1% BSA.

**Storage:** Upon receipt, store unopened vials at 4°C immediately and use within 12 months from date of receipt. Prior to use, reconstitute the lyophilized powder with 0.2 ml of PBS containing a carrier protein (e.g., 1% BSA, protease free), pH7.4. Re-cap vial, vortex. Allow the reconstituted standard to sit at room temperature for 15 minutes, vortex again to mix completely. The reconstituted standard stock solution can be aliquoted into polypropylene vials and stored at -70°C for up to one month. Do not re-use diluted standards. Use a manual defrost freezer and avoid repeated freeze thaw cycles.

## Applications:

**Applications:** ELISA

**Recommended Usage:** Each lot of this protein is quality control tested by ELISA assay. For use as an ELISA standard, a standard curve comprised of doubling dilutions from 1000 pg/ml to 8 pg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** This IL-6 protein is useful as a standard for a human IL-6 sandwich ELISA, using unlabeled MQ2-13A5 antibody (catalog #501102) for capture and biotinylated MQ2-39C3 antibody (catalog #501202) for detection.

**Description:** IL-6 is a potent lymphoid cell growth factor that stimulates the growth and survival of certain B cells and T cells. IL-6 plays a role in host defense, acute phase reactions, immune response, and hematopoiesis. IL-6 is expressed by T cells, B cells, monocytes, fibroblasts, hepatocytes, endothelial cells and keratinocytes. Recombinant human IL-6 is a 26 kD protein containing 184 amino acids.

**Antigen References:**

1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.
2. Hirano T. 1998. *Intl. Rev. Immunol.* 16:249.
3. Patterson P. 1992. *Curr. Opin. Neurobiol.* 2:94.
4. Van Oers M, *et al.* 1993. *Ann. Hematology* 66:219.



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