

Recombinant Human IL-12 (p70) (ELISA Std.)

Catalog # / Size: 572209 / 4 pack

Source: CHO cells, approximately 70 kD

Preparation: ELISA Standard 4-Pack contains four vials of recombinant human IL-12 (p70) at >5 ng per vial. Recommended for ELISA application only. Standards are calibrated against a BioLegend Master Calibrator.

Formulation: Lyophilized in sterile-filtered PBS, pH 7.2, containing 1% BSA.

Storage: Upon receipt, store unopened vials between 2°C and 8°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 15.6 pg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: This IL-12 p70 protein is useful as a standard for a human IL-12 sandwich ELISA, using unlabelled anti-IL-12 p70 antibody, clone 7B12 (catalog# 511002) for capture and biotinylated C8.6 antibody (catalog #508802) for detection.

Description: Bioactive IL-12 is a potent regulator of cell-mediated immune responses and key mediator of Th1 cell development. Bioactive IL-12 is secreted by activated B lymphocytes, dendritic cells, and macrophages as a 70 kD heterodimeric glycoprotein comprised of disulfide-bonded 35 kD and 40 kD subunits. The disulfide-linked p40 homodimer can bind to IL-12 receptors and antagonize the activities of bioactive IL-12. Recombinant human IL-12 is a 70 kD protein containing a 306 amino acid p40 subunit and a 197 amino acid p35 subunit.

Antigen References:

1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.
2. Quesniaux V. 1992. *Research Immun.* 143:385.
3. Trinchieri G, *et al.* 1992 *Prog. Growth Factor Res.* 4:355.
4. Trinchieri G, *et al.* 1993 *Immunol. Today.* 14:335.



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