

Datasheet: PHP100

BATCH NUMBER 172419

Description:	RECOMBINANT HUMAN INTERLEUKIN-12
Name:	IL-12
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			0.2 - 0.4 ng/well
Western Blotting	▪			1.5 - 3.0 ng/lane
Functional Assays	▪			0.1 - 10 ng/ml

Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate positive/negative controls.

Target Species

Human

Product Form

Purified recombinant protein - lyophilized

Reconstitution

Reconstitute with 50ul sterile PBS. For extended storage, the addition of 0.1% bovine serum albumin is recommended.

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. Do not vortex.

Preparation

Purified recombinant Human Interleukin-12 expressed in Chinese Hamster Ovary (CHO) cells.

Source

CHO cells

Buffer Solution

Phosphate buffered saline

Preservative

None present

Stabilisers

Carrier Free Yes

Endotoxin Level < 0.1 ng/ug

Approx. Protein Concentrations 0.2 mg/ml after reconstitution

External Database Links**UniProt:**

[P29460](#) [Related reagents](#)

[P29459](#) [Related reagents](#)

Entrez Gene:

[3593](#) IL12B [Related reagents](#)

[3592](#) IL12A [Related reagents](#)

Synonyms NKSF1, NKSF2

Product Information **Recombinant human Interleukin-12 (IL-12)** produced in CHO cells is a ~75 kDa glycoprotein comprised of disulfide-linked 35kDa (p35) and 40kDa (p40) subunits.

IL-12 is produced by activated B lymphocytes and macrophages. The properties of IL-12 include the stimulation of growth of activated T lymphocytes, and actions in the development of Th1 CD4 +ve cells and CD8 +ve cytotoxic T cells. IL-12 also promotes activity and division of NK cells and promotes formation of TH1 cells producing &gamma-interferon.

Protein Molecular Weight 75kDa (503 Amino acid sequence)

Purity >98% by SDS PAGE and HPLC analysis

Western Blotting Recombinant human IL-12 may be used as the positive control for western blotting applications with either [anti-human IL-12:purified](#) (AHP779) or [anti-human IL-12:biotin conjugate](#) (AHP779B).

Storage Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety
Information**

Material Safety Datasheet documentation #10527 available at:
<https://www.bio-rad-antibodies.com/SDS/PHP100>

Regulatory

For research purposes only

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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