

Datasheet: PHP100

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	<p>Reconstitute with 50ul sterile PBS. For extended storage, the addition of 0.1% bovine serum albumin is recommended.</p> <p>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.</p>
Preparation	Purified recombinant Human Interleukin-12 expressed in Chinese Hamster Ovary (CHO) cells.
Source	CHO cells
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present

Carrier Free	Yes
Endotoxin Level	< 0.1 ng/ug
Approx. Protein Concentrations	0.2 mg/ml after reconstitution
External Database Links	<p>UniProt:</p> <p>P29460 Related reagents</p> <p>P29459 Related reagents</p> <p>Entrez Gene:</p> <p>3593 IL12B Related reagents</p> <p>3592 IL12A Related reagents</p>
Synonyms	NKSF1, NKSF2
Product Information	<p>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.</p> <p>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.</p>
Protein Molecular Weight	75kDa (503 Amino acid sequence)
Purity	>98% by SDS PAGE and HPLC analysis
ELISA	Recombinant human IL-12 may be used as a standard for ELISA applications with either anti-human IL-12:purified (AHP779) or anti-human IL-12:biotin conjugate (AHP779B).
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	<p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
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/PHP10010527>

Regulatory For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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Printed on 19 Jan 2024

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