

Datasheet: PHP046

Description:	RECOMBINANT HUMAN INTERLEUKIN-7
Name:	IL-7
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	▪			0.1ng/ml - 10ng/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 protein for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant protein expressed in <i>E. coli</i> - lyophilised
Reconstitution	Reconstitute with 0.1 ml distilled water. For extended storage the addition of 0.1% BSA 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.
Buffer Solution	10mM Acetic Acid
Preservative Stabilisers	None present
Endotoxin Level	<0.1 ng/ug
Approx. Protein Concentrations	Total protein concentration 0.1 mg/ml after reconstitution
External Database Links	UniProt: P13232 Related reagents Entrez Gene: 3574 IL7 Related reagents

Product Information **Recombinant human IL-7** is a 17.4 kDa protein comprised of 153 amino acids corresponding to the full-length mature sequence.

IL-7 is a potent lymphoid cell growth factor acting on Pre-B, Pro-B and early T cells. In a dose dependent cell proliferation assay using 2E8 cells this product shows a specific activity of > 2 x 10⁶ units/mg.

Recombinant human IL-7 is recognized by Rat anti Human IL-7 antibody clones [BVD10-40F6](#) and [BVD10-11C10](#) in ELISA.

Protein Molecular Weight	17.4KD (153 amino acids)
Purity	>98 % by SDS PAGE and HPLC
ELISA	Recombinant human IL-7 may be used as a standard for ELISA applications with either anti-Human IL-7 (purified) or anti-Human IL-7 (biotin conjugate) .
Western Blotting	Recombinant human IL-7 may be used as the positive control for western blotting applications with either anti-Human IL-7 (purified) or anti-Human IL-7 (biotin conjugate) .
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.
Shelf Life	3 months from date of reconstitution. Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10527 available at: 10527: https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf
Regulatory	For research purposes only

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