

## Datasheet: PHP030A

<b>Description:</b>	RECOMBINANT HUMAN EGF
<b>Name:</b>	EGF
<b>Other names:</b>	EPIDERMAL GROWTH FACTOR
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	0.5 mg

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			0.5 - 25ng/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 positive/negative controls.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified recombinant protein - lyophilised
<b>Reconstitution</b>	Reconstitute with 0.5ml distilled water 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. For extended storage, the addition of 5% trehalose is recommended
<b>Preparation</b>	Purified recombinant human EGF expressed in <i>E. coli</i>
<b>Preservative Stabilisers</b>	None present
<b>Endotoxin Level</b>	<0.1 ng/ug
<b>Approx. Protein Concentrations</b>	1.0 mg/ml after reconstitution.
<b>External Database</b>	<b>UniProt:</b>

Links [P01133](#) [Related reagents](#)

**Entrez Gene:**

[1950](#) EGF [Related reagents](#)

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**Product Information** **Recombinant human epidermal growth factor** is 6.2kDa globular protein composed of 53 amino acids. EGF is a polypeptide growth factor which stimulates the proliferation of a wide range of epidermal and epithelial cells.

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**Protein Molecular Weight** 6.2 kD (53 Amino acid sequence)

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**Activity** 1 x 10<sup>7</sup> units/mg

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**Purity** >98% by SDS PAGE and HPLC analysis

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**ELISA** Recombinant human EGF may be used as a standard in ELISA applications with either a [purified human EGF antibody](#) (AHP767) or a [biotinylated human EGF antibody](#) (AHP767B).

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**Western Blotting** Recombinant human EGF may be used as the positive control for Western Blotting application with either a [purified human EGF antibody](#) (AHP767) or a [biotinylated human EGF antibody](#) (AHP767B)

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**References**

1. Tomlins, C. & Storey, A. (2010) Cutaneous HPV5 E6 causes increased expression of Osteoprotegerin and Interleukin 6 which contribute to evasion of UV-induced apoptosis. [Carcinogenesis. 31 \(12\): 2155-64.](#)
2. Wray, H. *et al.* (2012) α6 Integrin and CD44 enrich for a primary keratinocyte population that displays resistance to UV-induced apoptosis. [PLoS One. 7 \(10\): e46968.](#)
3. Chen, W. *et al.* (2016) Tissue Kallikrein Inhibitors Based on the Sunflower Trypsin Inhibitor Scaffold - A Potential Therapeutic Intervention for Skin Diseases. [PLoS One. 11 \(11\): e0166268.](#)
4. Zhang, X. *et al.* (2015) Wnt signaling regulates the stemness of lung cancer stem cells and its inhibitors exert anticancer effect on lung cancer SPC-A1 cells. [Med Oncol. 32 \(4\): 95.](#)

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**Storage** Prior to reconstitution store at +4°C. Following reconstitution store at -20°C if preferred.

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.

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**Shelf Life** 3 months from date of reconstitution.

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**Health And Safety Information** Material Safety Datasheet Documentation #10527 available at: <https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf>

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**Regulatory** For research purposes only

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