

## Datasheet: PHP208

|                      |                                    |
|----------------------|------------------------------------|
| <b>Description:</b>  | RECOMBINANT HUMAN DEFENSIN ALPHA 1 |
| <b>Name:</b>         | DEFENSIN ALPHA 1                   |
| <b>Other names:</b>  | HNP-1                              |
| <b>Format:</b>       | Rec. Protein                       |
| <b>Product Type:</b> | Recombinant Protein                |
| <b>Quantity:</b>     | 20 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](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 | ▪   |    |                |                    |

Where this product 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 negative/positive controls.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Product Form</b>             | Purified recombinant protein - lyophilized  |
| <b>Reconstitution</b>           | Reconstitute with 0.2 ml 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. |
| <b>Preparation</b>              | Purified recombinant defensin-α-1 expressed in <i>E.coli</i>  |
| <b>Preservative Stabilisers</b> | None present  |
| <b>Carrier Free</b>             | Yes   |
| <b>Endotoxin Level</b>          | < 1.0 EU/ug   |
| <b>Approx. Protein</b>          | 0.1 mg/ml after reconstitution  |

## Concentrations

### External Database Links

**UniProt:**

[P59665](#)    [Related reagents](#)

**Entrez Gene:**

[1667](#)    DEFA1    [Related reagents](#)

### Synonyms

DEF1, DEFA2, MRS

### Product Information

**Recombinant Human Defensin- $\alpha$ -1** is a 3.4kDa peptide comprised of 30 amino acid residues corresponding to full-length mature human defensin alpha 1. Defensin- $\alpha$ -1, otherwise known as HNP-1, is a secreted cationic antimicrobial peptide and member of the alpha-defensin family, which plays an important role in the innate immune response against microbial infections.

### Protein Molecular Weight

3.4 kDa (30 amino acid residues)

### Activity

Determined by its ability to chemoattract immature dendritic cells using a concentration of 1.0 - 10.0 ng/ml

### Purity

>98% by SDS PAGE and HPLC

### ELISA

Recombinant human defensin- $\alpha$ -1 may be used as a standard for ELISA applications with a [purified anti human defensin- \$\alpha\$ -1 antibody](#) (AHP1781).

### Western Blotting

Recombinant human defensin- $\alpha$ -1 may be used as a positive control for Western Blotting applications with a [purified human defensin- \$\alpha\$ -1 antibody](#) (AHP1781).

### Storage

Prior to reconstitution store at +4°C.  
After reconstitution store at -20°C.  
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

### Guarantee

3 months from date of reconstitution

### Health And Safety Information

Material Safety Datasheet documentation #10268 available at:  
10268: <https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf>

### 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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