

## 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>Source</b>	E.coli
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 1.0 EU/ug

<b>Approx. Protein Concentrations</b>	0.1 mg/ml after reconstitution
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P59665</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1667</a>    DEFA1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	DEF1, DEFA2, MRS
<b>Product Information</b>	<b>Recombinant Human Defensin-<math>\alpha</math>-1</b> is a 3.4kDa peptide comprised of 30 amino acid residues corresponding to full-length mature human defenstin 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.
<b>Protein Molecular Weight</b>	3.4 kDa (30 amino acid residues)
<b>Activity</b>	Determined by its ability to chemoattract immature dendritic cells using a concentration of 1.0 - 10.0 ng/ml
<b>Purity</b>	>98% by SDS PAGE and HPLC
<b>ELISA</b>	Recombinant human defensin- $\alpha$ -1 may be used as a standard for ELISA applications with a <a href="#">purified anti human defensin-<math>\alpha</math>-1 antibody</a> (AHP1781).
<b>Western Blotting</b>	Recombinant human defensin- $\alpha$ -1 may be used as a positive control for Western Blotting applications with a <a href="#">purified human defensin-<math>\alpha</math>-1 antibody</a> (AHP1781).
<b>Storage</b>	<p>Prior to reconstitution store at -20°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.</p>
<b>Guarantee</b>	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10268 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PHP208">https://www.bio-rad-antibodies.com/SDS/PHP208</a> 10268
<b>Regulatory</b>	For research purposes only

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 12 Aug 2023**

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