

## Datasheet: PHP037

<b>Description:</b>	RECOMBINANT HUMAN TGF ALPHA
<b>Name:</b>	TGF ALPHA
<b>Other names:</b>	TRANSFORMING GROWTH FACTOR ALPHA
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	0.1 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 antibody for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Recombinant protein - lyophilized

### Reconstitution

Reconstitute with 0.1ml 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 0.1% bovine serum albumin (BSA) is recommended.

### Preparation

Recombinant protein expressed in *E. coli*.

### Source

*E.coli*

<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 0.1 ng/ug
<b>Approx. Protein Concentrations</b>	1.0 mg/ml after reconstitution
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01135</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7039</a>    TGFA    <a href="#">Related reagents</a></p>
<b>Product Information</b>	<b>Recombinant human TGF<math>\alpha</math></b> is a 5.5kDa peptide corresponding to full-length mature human transforming growth factor alpha. TGF $\alpha$ is an EGF-related growth factor that stimulates the proliferation of epidermal and epithelial cells.
<b>Protein Molecular Weight</b>	5.5kD (50 Amino Acid Sequence)
<b>Activity</b>	>5 x 10 <sup>6</sup> Units/mg
<b>Purity</b>	>98% by SDS PAGE and HPLC
<b>ELISA</b>	Recombinant human TGF $\alpha$ may be used as a standard for ELISA applications with <a href="#">purified human TGF<math>\alpha</math> antibody</a> (AHP284G).
<b>Western Blotting</b>	Recombinant human TGF $\alpha$ may be used as the positive control for Western Blotting applications with <a href="#">purified human TGF<math>\alpha</math> antibody</a> (AHP284G).
<b>Storage</b>	<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>
<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 #10527 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PHP037">https://www.bio-rad-antibodies.com/SDS/PHP037</a> 10527

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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://bio-rad-antibodies.com/datasheets)

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