

Datasheet: TZA071

**BATCH NUMBER 171783**

<b>Description:</b>	HUMAN ANTI GUSELKUMAB
<b>Specificity:</b>	GUSELKUMAB
<b>Other names:</b>	Tremfya
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD59937
<b>Isotype:</b>	Fab antibody
<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	▪			

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.

### Product Form

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in a proprietary *E. coli* strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Protocol: [PK bridging ELISA](#)

### Preparation

Metal chelate affinity chromatography

### Source

*E.coli*

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.0095% MIT

<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Guselkumab
<b>Specificity</b>	<p><b>Human Anti-Guselkumab Antibody, clone AbD59937</b> is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug guselkumab, and its biosimilar products. It does not recognize the drug target, the human Interleukin-23 (IL-23), nor guselkumab in complex with IL-23. This antibody can be used to measure free guselkumab levels in serum from patients.</p> <p>A pair of anti-guselkumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD59937 is recommended as the detection reagent, paired with Human Anti-Guselkumab Antibody, clone AbD59307ad (<a href="#">TZA070</a>) as the capture antibody.</p> <p>TZA071 is a monovalent Fab antibody incorporating a SpyTag at the C-terminus end of the antibody heavy chain for conversion by the end user into alternative formats using any of the <a href="#">SpyCatchers</a> available in our catalog.</p> <p>Clone AbD59937 is also available conjugated to HRP via coupling to the BiSpyCatcher2:HRP (<a href="#">TZC002P</a>) for direct detection of guselkumab.</p> <p>Guselkumab (trade name Tremfya) is a fully human monoclonal antibody of the IgG1/lambda isotype binding to the p19 subunit of IL-23 to block its interaction with the IL-23 receptor, subsequently inhibiting the release of pro-inflammatory cytokines and chemokines. Guselkumab is approved for the treatment of moderate to severe plaque psoriasis in adults.</p> <p><a href="#">View a summary of all anti-guselkumab antibodies</a></p>
<b>Affinity</b>	The monovalent intrinsic affinity of AbD59937ad was measured as $K_D = 0.06$ nM by real time, label free molecular interaction analysis on immobilized guselkumab.
<b>ELISA</b>	Clone AbD59937ad can be used in indirect ELISA to detect guselkumab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for guselkumab, together with <a href="#">TZA070</a> as the capture reagent.
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See

bio-rad.com/en-us/trademarks for details.  
His-tag is a registered trademark of EMD Biosciences.  
Tremfya is a trademark of MorphoSys.

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA071">https://www.bio-rad-antibodies.com/SDS/TZA071</a>
<b>Licensed Use</b>	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>

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## Related Products

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

[HUMAN ANTI GUSELKUMAB \(HCA420\)](#)

[HUMAN ANTI GUSELKUMAB \(HCA421\)](#)

[HUMAN ANTI GUSELKUMAB \(TZA070\)](#)

[HUMAN ANTI GUSELKUMAB:HRP \(TZA071P\)](#)

[HUMAN ANTI GUSELKUMAB \(DRUG/TARGET COMPLEX\) \(TZA072\)](#)

[HUMAN ANTI GUSELKUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA072P\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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