

Datasheet: TZC017

| | |
|----------------------|--------------------------|
| Description: | HUMAN IgG3-FcSpyCatcher3 |
| Name: | HUMAN IgG3-FcSPYCATCHER3 |
| Format: | Catcher |
| Product Type: | Recombinant Protein |
| Quantity: | 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.

| | Yes | No | Not Determined | Suggested Dilution |
|-------------|-----|----|----------------|--------------------|
| Immunoassay | ▪ | | | |

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.

| | |
|---------------------------------------|--|
| Target Species | Protein/peptide tag |
| Product Form | Purified recombinant protein - Liquid |
| Preparation | Recombinant protein expressed in mammalian cell line and purified by affinity chromatography |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.1% ProClin 950 |
| Approx. Protein Concentrations | 80 µM (7 mg/ml) |

Product Information **Human IgG3-FcSpyCatcher3** (hIgG3-FcSpyC3) contains a SpyCatcher3 ([Keeble *et al.* 2019](#)) fused to the hinge region, CH2 and CH3 of human IgG3 ([Hentrich *et al.* 2020](#)), resulting in a 87.4 kDa protein for the disulfide-bridged dimer. Each SpyCatcher3 subunit can form a stable covalent isopeptide bond with a second protein that includes a SpyTag. The reaction occurs spontaneously on mixing, is rapid, irreversible, high-yielding and shows good specificity. The reaction is robust at pH 5 to 8, at temperatures from +4°C to

+37°C, in various buffer conditions (Ca²⁺/Mg²⁺ not needed) and in the presence of detergents. The reaction also occurs inside cells (*in vivo*). Since the speed of the coupling reaction is concentration dependent, it is recommended to use IgG3-FcCatcher3 undiluted.

Human IgG3-FcSpyCatcher3 is compatible with Bio-Rad's recombinant HuCAL® antibodies with a SpyTag2 at the C-terminus of the heavy chain.

[Download FcSpyCatcher coupling protocol](#)

[View all available Catchers](#)

| | |
|---------------------------------|--------------------|
| Protein Molecular Weight | Predicted 87394 Da |
|---------------------------------|--------------------|

| | |
|---------------|---|
| Purity | ≥90% determined by SDS-PAGE under reducing conditions and visualized by coomassie blue staining |
|---------------|---|

| | |
|-----------------------------|---|
| Instructions For Use | View FcSpyCatcher Coupling Protocol |
|-----------------------------|---|

| | |
|----------------|---|
| Storage | Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use. |
|----------------|---|

| | |
|------------------|---------------------------------|
| Guarantee | 12 months from date of despatch |
|------------------|---------------------------------|

| | |
|-------------------------|--|
| Acknowledgements | ProClin is a trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow 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. |
|-------------------------|--|

| | |
|--------------------------------------|--|
| Health And Safety Information | Material Safety Datasheet documentation #20480 available at: 20480: https://www.bio-rad-antibodies.com/uploads/MSDS/20480.pdf |
|--------------------------------------|--|

| | |
|---------------------|--|
| Licensed Use | For <i>in vitro</i> research purposes. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad. |
|---------------------|--|

| | |
|-------------------|----------------------------|
| Regulatory | For research purposes only |
|-------------------|----------------------------|

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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

'M391887:211015'

Printed on 15 Oct 2021

