



FabRICATOR®Z

Lyophilized

STORE AT

-20°C



FOR RESEARCH USE ONLY

Instructions for Use

FabRICATOR®Z Lyophilized 2000 units (A0-FRZ-020)
Process 2 mg mouse IgG2a and IgG3



Lyophilized Enzyme for Below Hinge Digestion of Mouse IgG2a and IgG3

FabRICATOR Z (IdeZ) is a cysteine protease that digests mouse IgG2a and IgG3 at a single amino acid site below the hinge, generating homogenous F(ab')₂ and Fc fragments. There is no risk of overdigestion if the incubation time is prolonged. Since FabRICATOR Z digests IgG under physiological reaction conditions, the immunoreactivity is preserved. Most mouse IgG2a and IgG3 are digested by FabRICATOR Z within 2 hours, although the enzyme:antibody ratio and/or digestion time may need to be optimized for certain antibodies. FabRICATOR Z is also active on IgG from monkey, rabbit and sheep. For digestion of human IgG, we recommend using FabRICATOR (A0-FR1-020).

FabRICATOR Z Lyophilized is derived from *Streptococcus equi subsp. zooepidemicus* and expressed in *E. coli*. The enzyme contains a His-tag and the molecular weight is 36 kDa.

UNIT DEFINITION

One unit FabRICATOR Z Lyophilized digests $\geq 95\%$ of 1 μg mouse IgG2a when incubated in 10 mM sodium phosphate, 10 mM NaCl, pH 6.5 at 37°C for 2 hours.

CONTENT AND STORAGE

FabRICATOR Z Lyophilized is supplied lyophilized in 50 mM Tris, 150 mM NaCl, pH 7.6, with no preservatives added.

FabRICATOR Z Lyophilized is shipped at ambient temperature and should be stored at -20°C upon arrival.

After reconstitution, FabRICATOR Z Lyophilized is stable for at least 1 month at +4-8°C.

FabRICATOR Z Lyophilized is for R&D use only.

QUALITY CONTROL

FabRICATOR Z Lyophilized is tested to meet the specifications and lot-to-lot consistency.

FabRICATOR Z Lyophilized is tested for absence of microbial contamination with blood agar plates, Sabouraud dextrose agar plates and fluid thioglycollate medium.

YOU MIGHT ALSO BE INTERESTED IN

FabRICATOR® Z Immobilized

Immobilized enzyme for below hinge digestion of mouse IgG2a and IgG3 in spin columns

FabRICATOR® Z Fab2 Kit

Immobilized enzyme and affinity resin for below hinge digestion of mouse IgG2a and IgG3 and purification of fragments

FabRICATOR® Lyophilized

Lyophilized enzyme for below hinge digestion of IgG

FabALACTICA™ Lyophilized

Lyophilized enzyme for above hinge digestion of human IgG1

Preparations

Additional Materials Required

- Reaction buffer: 10 mM sodium phosphate, 10 mM NaCl, pH 6.5.¹

1. The NaCl concentration and pH can be increased but this may require increased enzyme concentration and/or a prolonged incubation time.

Below Hinge Digestion of Mouse IgG2a and IgG3

Sample Preparation

Prepare the IgG in the reaction buffer. The final IgG concentration in the reaction should be 0.5-10mg/ml.

1. Prepare FabRICATOR Z

1.1 Reconstitute FabRICATOR Z in 50 μ l ddH₂O to a concentration of 40 units/ μ l.

2. Add FabRICATOR Z

2.1 Add 1 unit FabRICATOR Z / 1 μ g IgG.²

3. Enzymatic Reaction

3.1 Incubate for 2 h³ at 37°C.

2. The enzyme:antibody ratio may need to be increased for individual antibodies.
3. The incubation time may need to be prolonged for individual antibodies.

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