GENOVIS

GlycINATOR™

Lyophilized

STORE AT
-20°C

FOR RESEARCH USE ONLY

Instructions for Use

GlycINATOR™ Lyophilized 2000 units (A0-GL1-020)
Process 2 mg IgG

GlycINATOR™ Low Endotoxin 2000 units (A0-GL8-020)
Process 2 mg IgG

DOWNLOAD INSTRUCTIONS FOR USE
www.genovis.com/ifu-A0-GL1

Lyophilized Enzyme for Hydrolysis of All Types of Fc N-glycans

GlycINATOR (EndoS2) is an IgG-specific endoglycosidase that hydrolyzes all glycoforms present at the Fc N-glycosylation sites. The enzyme acts on native IgG and leaves the core GlcNAc intact, with or without fucose. Within 30 minutes, GlycINATOR deglycosylates all human IgG subclasses and IgG from many different species, including mouse, rabbit, rat, monkey, sheep, goat, cow, and horse. It removes all glycoforms on IgG, including high-mannose, hybrid, complex, and bisecting type glycans.[1] The best activity is obtained at physiological reaction conditions (pH 7.4 and 37°C). Other buffers and pH may be compatible, but the reaction conditions need to be tested to ensure efficient deglycosylation. The GlycINATOR Low Endotoxin product formulation has low levels of endotoxins per vial (< 0.2 EU), for use in sensitive *in vivo* or cell-based assays.

GlycINATOR is derived from *Streptococcus pyogenes* and expressed in *E. coli*. The enzyme contains a His-tag and has a molecular weight of 92 kDa.

UNIT DEFINITION

One unit GlycINATOR Lyophilized deglycosylates ≥ 95% of 1 µg human IgG when incubated in 10 mM sodium phosphate, 150 mM NaCl, pH 7.4 at 37°C for 30 minutes.

CONTENT AND STORAGE

GlycINATOR Lyophilized is supplied lyophilized in 10 mM Tris, 150 mM NaCl, pH 7.6, with no preservatives added.

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

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

GlycINATOR Lyophilized is for R&D use only.

QUALITY CONTROL

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

GlycINATOR 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

GlycINATOR™ Immobilized
Immobilized enzyme for hydrolysis of all types of Fc N-glycans

IgGZERO™
Hydrolysis of complex-type Fc N-glycans

PNGase F
Hydrolysis of N-glycans

1. GlycINATOR has also been reported to hydrolyze glycan moieties from alpha-1-acid glycoprotein.

Preparations

Important Information

- For GlycINATOR Low Endotoxin, use endotoxin-free materials and solutions.

Additional Materials Required

- Reaction buffer: 10 mM sodium phosphate or 10 mM Tris, 150 mM NaCl, pH 7.4 or similar physiological buffer.[2]

2. GlycINATOR hydrolyzes the Fc N-glycans at physiological conditions. Other buffers or pH may also be compatible with enzyme activity.

Hydrolysis of All Types of Fc N-glycans

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

1. Prepare GlycINATOR

1.1 Reconstitute GlycINATOR in ddH_2O according to Table 1.

2. Add GlycINATOR

2.1 Add 1 unit GlycINATOR / 1 µg IgG.

3. Enzymatic Reaction

3.1 Incubate for 30 min[3] at 37°C.

Table 1. Recommended Volumes for Reconstitution of the GlycINATOR Enzyme

Product	Product Size	Reconstitution Volume
A0-GL1-020	2000 units	50 µl
A0-GL8-020	2000 units	50 µl (endotoxin-free)

3. An increased incubation time may improve deglycosylation of IgG from other species than human.

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