



FucosEXO®

Lyophilized

STORE AT

-20°C



FOR RESEARCH USE ONLY

Instructions for Use

FucosEXO® Lyophilized 2000 units (G1-FM1-020)
Process 2 mg glycoprotein

DOWNLOAD INSTRUCTIONS FOR USE



www.genovis.com/ifu-G1-FM1

Lyophilized Enzyme for Hydrolysis of α 1-2,3,4 Fucose

FucosEXO is a mix of α -Fucosidases for efficient hydrolysis of α 1-2, α 1-3 and α 1-4-linked fucose residues on native N- and O-glycosylated proteins or free oligosaccharides. FucosEXO hydrolyzes fucose on glycoproteins under native conditions and display a high activity in pH 6.0-8.0.

The enzymes in FucosEXO Lyophilized are derived from *Akkermansia muciniphila* and *Streptococcus oralis*, and expressed in *E. coli*. Both enzymes contain a His-tag and the molecular weights of the enzymes are 87 kDa and 64 kDa.

UNIT DEFINITION

One unit FucosEXO Lyophilized hydrolyzes fucoses from $\geq 90\%$ of 1 μ g glycoprotein (glycoengineered TNFR) when incubated in 20 mM Tris, pH 6.8 at 37°C for 1 hour.

CONTENT AND STORAGE

FucosEXO Lyophilized is supplied lyophilized in TBS, pH 7.6, with no preservatives added.

FucosEXO Lyophilized is shipped cold, and should be stored at -20°C upon arrival. After reconstitution, FucosEXO Lyophilized is stable for at least 1 month at +4-8°C.

FucosEXO Lyophilized is for R&D use only.

QUALITY CONTROL

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

FucosEXO 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

FucosEXO® Immobilized

Immobilized enzyme mix for hydrolysis of α 1-2,3,4 fucose in spin columns

SialEXO™

Hydrolysis of sialic acids

GalactEXO®

Hydrolysis of β 1-3,4 galactose

GaINAcEXO®

Hydrolysis of α -linked GalNAcs

Preparations

Additional Materials Required

- Reaction buffer: 20mM Tris, pH 6.8.¹

1. FucosEXO Lyophilized displays high activity in buffers with pH 6.0-8.0, and over a wide range of ionic strengths (0-500mM NaCl). Optimization might be required if a buffer other than the recommended reaction buffer is used.

Hydrolysis of α 1-2,3,4 Fucose

Sample Preparation

Prepare the glycoprotein in the reaction buffer. The final glycoprotein concentration in the reaction should be 0.5-5.0mg/ml.

1. Prepare FucosEXO

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

2. Add FucosEXO

2.1 Add 1 unit FucosEXO / 1 μ g glycoprotein.²

3. Enzymatic Reaction

3.1 Incubate for 1-2 h at 37°C.

Note: Optimization of enzyme concentrations and incubation time may be needed depending on the substrate.

2. A higher enzyme concentration may increase digestion efficiency of individual glycoproteins. This requires optimization.

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