



α -(1-3,4) Fucosidase
 α -L-Fucoside fucohydralase

Source

Xanthamonas manihotis

Catalog Number

E-F134

Certification of Analysis Lot Number

706.1A

EC 3.2.1.51

Contents

1 vial: α -(1-3,4) Fucosidase

20 mM Tris-HCl, 25 mM NaCl pH 7.5

1 vial: 5x Reaction buffer – 250 mM NaHPO₄, pH 5

Specific Activity 2.3 U/mg

Activity >0.5 U/ml

Application

•Deglycosylating of proteins with Lewis structures

Molecular Weight ~62,000 daltons

Specific Activity

One unit of QA-Bio Fucosidase is defined as the amount of enzyme required to cleave 1 μ mole of fucose from Lewis X trisaccharide, 4-methylumbelliferyl glycoside in 1 minute at 37°C, pH 5.0.

Specificity

α -(1-3,4)-Fucosidase cleaves α -(1-3) and α -(1-4)-linked fucose GlcNAc of a Gal-GlcNAc disaccharide structure. The presence of sialic acid (but not fucose) linked to the galactose will block cleavage.

Fucosidase α -(1-3,4)



Formulation

The enzyme is provided as a sterile-filtered solution in 20 mM Tris HCl pH 7.5 and 25 mM NaCl.

Stability

Stable at least 12 months when stored properly. Several days exposure to ambient temperatures will not reduce activity.

Storage

Store enzyme at 4°C. Do not freeze.

Purity

QA-Bio α -(1-3,4) Fucosidase is tested for contaminating protease as follows: 10 μ g of denatured BSA is incubated at 37°C for 24 hours with 2 μ l of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation.

Each lot is also tested for contaminating activities by incubating the enzymes with the appropriate substrates for 24 hours; the detection limit is 5 μ U/ml (IUB). A passing lot will have no detectable activity.

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Specifications - Protocol

Directions for use

1. Add up to 1 nmol of oligosaccharide to tube.
2. Add de-ionized water to a total of 15 μ l.
3. Add 4 μ l 5x Reaction Buffer 5.0.
4. Add 1 μ l α -(1-3,4) Fucosidase.
5. Incubate 1 hour at 37°C.

Progress may be monitored by SDS-PAGE if the size differential between native and de-glycosylated protein is sufficient for detection.

Warranties and liabilities

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This product is intended for *in vitro* research only.

updated 1/24/2018