

endo- α -N-acetylgalactosaminidase

Cat. No. EXWM-3960

Lot. No. (See product label)

Introduction

Description

The enzyme catalyses the liberation of Gal-(1 \rightarrow 3)- β -GalNAc α -linked to serine or threonine residues of mucin-type glycoproteins. EngBF from the bacterium *Bifidobacterium longum* specifically acts on core 1-type O-glycan to release the disaccharide Gal-(1 \rightarrow 3)- β -GalNAc. The enzymes from the bacteria *Clostridium perfringens*, *Enterococcus faecalis*, *Propionibacterium acnes* and *Alcaligenes faecalis* show broader specificity (e.g. they can also release the core 2 trisaccharide Gal-(1 \rightarrow 3)- β -(GlcNAc-(1 \rightarrow 6)- β)-GalNAc or the core 3 disaccharide GlcNAc-(1 \rightarrow 3)- β -GalNAc). The enzyme may play an important role in the degradation and utilization of mucins having core 1 O-glycan.

Synonyms

endo- α -acetylgalactosaminidase; endo- α -N-acetyl-D-galactosaminidase; mucinaminyserine mucinaminidase; D-galactosyl-3-(N-acetyl- α -D-galactosaminy)-L-serine mucinaminohydrolase; endo- α -GalNAc-ase; glycopeptide α -N-acetylgalactosaminidase; D-galactosyl-N-acetyl- α -D-galactosamine D-galactosyl-N-acetyl-galactosaminohydrolase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.2.1.97

CAS No.

59793-96-3

Reaction

β -D-galactosyl-(1 \rightarrow 3)-N-acetyl- α -D-galactosaminy-[glycoprotein]-L-serine/L-threonine + H₂O = β -D-galactosyl-(1 \rightarrow 3)-N-acetyl-D-galactosamine + [glycoprotein]-L-serine/L-threonine

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.