

endo-α-N-acetylgalactosaminidase

Cat. No. EXWM-3960

Lot. No. (See product label)

Introduction

- **Description** The enzyme catalyses the liberation of Gal-($1\rightarrow3$)- 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-($1\rightarrow3$)- 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-($1\rightarrow3$)- β -(GlcNAc-($1\rightarrow6$)- β)-GalNAc or the core 3 disaccharide GlcNAc-($1\rightarrow3$)- β -GalNAc). The enzyme may play an important role in the degradation and utilization of mucins having core 1 O-glycan.
- Synonymsendo-α-acetylgalactosaminidase; endo-α-N-acetyl-D-galactosaminidase; mucinaminylserine
mucinaminidase; D-galactosyl-3-(N-acetyl-α-D-galactosaminyl)-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-galactosaminyl-[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 and Shipping Information

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