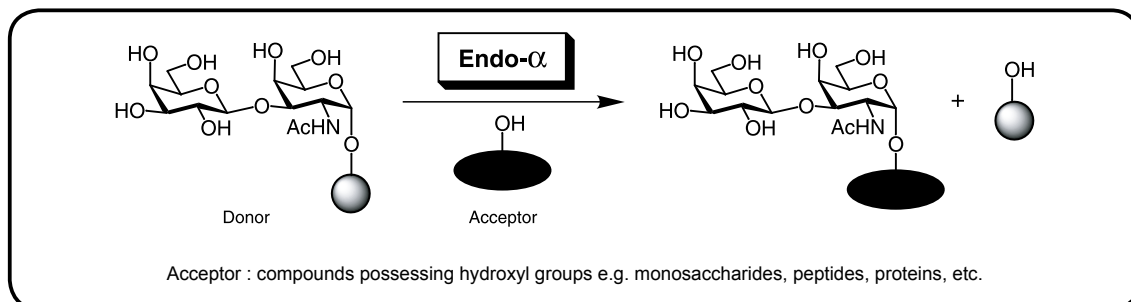


An Enzyme Transfers the Intact Oligosaccharides — Endo- α —



Yamamoto *et al.* have recently purified and isolated endo- α -N-acetylgalactosaminidase (Endo- α) found in the culture fluid of *Bifidobacterium longum*¹⁾. Endo- α can recognize the structure of the Gal β 1-3GalNAc disaccharide α -linked with a hydroxyl group. It releases Gal β 1-3GalNAc by hydrolysis. When a compound possessing a hydroxyl group coexists as an acceptor, the released Gal β 1-3GalNAc is transferred to the acceptor²⁾.

Discovered by Yamamoto *et al.*, Endo- α can transfer Gal β 1-3GalNAc to various compounds such as monosaccharides, peptides, and proteins, using core 1 contained in mucin-type oligosaccharide chains as a donor. As a tool for the enzymatic synthesis of glycoconjugates, it is expected that many applications for Endo- α will be found in a wide range of fields.

A1844 Endo- α (=endo- α -N-Acetylgalactosaminidase)
Recombinant from *Bifidobacterium longum* expressed in *Eschericia coli*
(EC 3.2.1.97)

100 m units*

* 1 unit will hydrolyze 1 μ mol of Gal β 1-3GalNAc-*p*NP to Gal β 1-3GalNAc and *p*NP per minute at pH5.0 and 37°C.

This Endo- α was merchandised as the fruition of NEDO project.

References

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- 2) H. Ashida, K. Yamamoto, T. Murata, T. Usui, H. Kumagai, *Arch. Biochem. Biophys.*, **2000**, *373*, 394; T. Katayama, K. Fujita, K. Yamamoto, *J. Biosci. Bioeng.*, **2005**, *99*, 457.

Keywords : Endo- α , endo- α -N-acetylgalactosaminidases, transglycosylation

This product is not available for purchase in the U.S.

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