

Recombinant Endo S2 Endoglycosidase, Mass Spec Grade

Cat. No. Endo S2 Endoglycosidase-48 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	It is a recombinant enzyme expressed in E. coli, derived from Streptococcus pyogenes.
Species	Streptococcus pyogenes
Source	E.coli
Description	Endo S2 is an endoglycosidase that specifically cleaves the N-linked oligosaccharides (Nglycans) on the Fc region of IgG, without affecting the core structure or the Fab region. Endo S2 specifically recognizes and cleaves the glycan chains on native IgG Fc domains. It is often used in antibody structure-function studies, antibody-drug conjugate (ADC) production, and analytical applications to confirm glycosylation state.
Form	Lyophilized powder containing 10 mM PB (pH 7.4 at 25 centigrade), 150 mM NaCl
Bio-activity	500 U/mg
Molecular Mass	92.5 kDa
Purity	Impurity protein peaks were measured by LC at 280 nm; rEndo S2 glycosidase showed >99.0 % peak intensity.
Storage	At -20 centigrade

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

CAS No.	37278-88-9
Shelf life	24 months at -20 centigrade
Usage Notes	1. Recommended buffer system: 20 mM PB or Tris buffer (pH 7.0-8.0) 2. For IgG samples, use a 200: 1 protein-to-enzyme ratio. Maintain protein concentration at 1 µg/µL and incubate in a dry bath at 37 centigrade for at least 30 min.
Specificity	In 10 mM sodium phosphate, 150 mM NaCl, pH 7.4, incubation at 37 centigrade for 30 min, 1 µg rEndo S2 achieves ≥98% core GlcNAc deglycosylation of 500 µg Bevacizumab.
Unit Definition	One unit achieves ≥98 % deglycosylation of 1 µg human IgG after 30 min incubation at 37 centigrade in pH 7.4 phosphate buffer.
LC-MS/MS Analysis	50 µg Secukinumab was reduced and digested with IdeS for 30 min, then deglycosylated with either rEndo S2 or rPNGase F. Specificity of rEndo S2 glycosidase was confirmed by QE HF mass spectrometry.
Resuspension Buffer	Dissolve in 80 µL of water.
pH Range	pH 7.4

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