Creative Enzymes®

Endoglycosidase S from Streptococcus pyogenes, Recombinant

Cat. No. NATE-1603

Lot. No. (See product label)

Introduction

Description	Endoglycosidase S is specific for N-glycans attached on the Fc domain of IgGs. The N-glycan is cleaved after the first Glc-Nac. Reaction is mild and runs fast under physiological conditions without the need for co-factors or detergent. The enzyme only hydrolyze glycans from the Fc-domain of IgGs even if other glycosylated proteins are present in solution.
Synonyms	Endoglycosidase S; IgGZERO

Product Information

Species	Streptocoocus pyogenes
Source	E.coli
Appearance	White to light yellow powder
Form	Lyophilized powder with no preservatives added
Molecular Weight	110 kDa
Purity	> 95% homogeneity as determined by SDS-PAGE analysis.
Optimum pH	6.5-7.5
Buffer	Cleavage buffer at pH 7.4 and at 37°C yields optimal enzyme activity. Many buffers at pH between 6-8 can be used but reaction conditions should be tested on a small amount before employing the enzyme at full scale.
Unit Definition	One unit digests > 95% of 1µg IgG when incubated in 10 mM sodium phosphate, 150 mM NaCl, pH 7.4 at 37°C for 30min.

Storage and Shipping Information

Storage	at -20°C
Stability	The enzyme is reconstituted by addition of water and after reconstitution it is stable for 1 month at +4-8°C. The enzyme can be aliquoted and stored at -20°C for at least 6 months. The product is shipped at ambient temperature but should be stored at -20°C upon arrival.