Creative Enzymes®

Endoglycosidase S2 (Low Endotoxin) from Streptococcus pyogenes, Recombinant

Cat. No. NATE-1781

Lot. No. (See product label)

Introduction

Description EndoS2 LE is an endoglycosidase for deglycosylation of the Fc N-glycan moieties of IgGs (1). All IgG glycoforms are hydrolyzed, including high-mannose, hybrid-type and bisected glycans. EndoS2 LE hydrolyzes the β1,4 linkage between the core GlcNAc residues in the Fc-glycan, leaving the innermost GlcNAc on the Fc. EndoS2 LE deglycosylates all human IgG subclasses and IgG from the following species: mouse, rat, monkey, sheep, goat, cow and horse. It has also been reported to hydrolyze glycan moieties from alpha-1-acid glycoprotein. EndoS2 LE is a low endotoxin product, use endotoxin free materials and solutions. Physiological reaction conditions at pH 7.4 and 37°C yields optimal enzyme activity. Other buffers and pH may be compatible but the reaction conditions needs to be tested to ensure efficient deglycosylation. The enzyme contains a His-tag and the molecular weight is 92 kDa.

Synonyms GlycINATOR LE; EndoS2; EndoS2 LE

Product Information

Species Streptocoocus pyogenes

Source E. coli

Form Supplied lyophilized in 10 mM Tris, 150 mM NaCl, pH 7.6, with no preservatives added.

Endotoxin Level < 0.2 EU per vial

Unit Definition One unit deglycosylates > 95% of 1 µg human IgG when incubated in 10 mM sodium phosphate, 150 mM NaCl, pH 7.4 at 37°C for 30 min.

Storage and Shipping Information

Storage It is shipped at ambient temperature. It should be stored at -20°C upon arrival. After reconstitution EndoS2 LE is stable for 1 month at +4-8°C.