

Active Recombinant Streptococcus pyogenes IdeZ protease

Cat. No. IdeZ protease-12S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IdeZ protease is derived from Streptococcus equi and is recombinantly expressed in E.coli. Residual Host Cell Protein: <50 ppm
Species	Streptococcus pyogenes
Source	E.coli
Description	This enzyme can recognize IgG antibodies from humans, mice, sheep, monkeys, and rabbits, and specifically cleave them below the hinge region, cutting the IgG antibodies into F (ab') ₂ and Fc fragments. Compared with IdeS protease, IdeZ protease is more efficient in cleaving IgG2a.
Purity	≥ 95% by SDS-PAGE
Bio-activity	≥ 20 U/μL
Advantages	1. High specificity: It has strict substrate specificity; 2. High stability: Each batch undergoes strict quality control to ensure controllable product batch-to-batch stability; 3. High purity: It is free from contamination by other proteases and has no other endo- and exo- glycosidase activities, with a purity of ≥ 95%; 4. Short digestion time: It can cleave IgG in as fast as 30 minutes.
Unit definition	One unit (1 U) is defined as the amount of the enzyme required to cleave 1 μg of human IgG (with a purity > 95%) at 37 centigrade within 15 minutes.

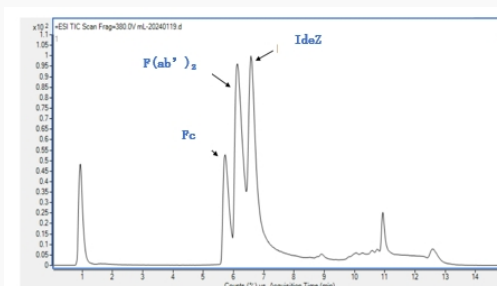
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Usage	1. Prepare the following reaction system: IgG: 20 µg 10× IdeZ Reaction buffer: 2.0 µL IdeZ protease 1.0 µL Water: Up to 20 µL 2. Incubate at 37 centigrade for 0.5-2 hours.
Applications	It is used for the structural characterization of therapeutic antibodies, Fc-fusion proteins, and antibody-drug conjugates.
Note	1. Try to avoid freeze-thaw cycles of this product after receipt; 2. Please wear lab coat and disposable gloves when using; 3. This product should not be used directly for clinical diagnosis and treatment.
Stability	This product should be stored at -20 centigrade and can be stored for at least 12 months.
Storage	Store at -20 centigrade.
Storage Buffer	20 mM Tris-HCl, 50 mM NaCl, 1 mM EDTA, pH 7.5
Shipping	Dry Ice

Performance Tests



Preparation of F(ab')₂ and Fc fragments by IdeZ

Preparation of F(ab')₂ fragment by IdeZ

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