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Recombinant IdeS Protease (IgG specific)

Catalog No.	YXX05001A YXX05001B	**Quantity:**	100 µg 1.0 mg

Alternate Names: Ig protease IdeS domain-containing protein

Description: Streptococcus pyogenes, a significant bacterial pathogen, secretes two enzymes showing remarkable specificity for IgG; EndoS and IdeS. IdeS (Immunoglobulin G-degrading enzyme of Streptococcus pyogenes) is a cysteine protease which cleaves IgG with a unique degree of specificity at a single site in the hinge region yielding F(ab')2 and Fc fragments.

Concentration: 20,000 Units/mg

Source: Expressed in *E. coli,* cloned from *Streptococcus pyogenes*

Formulation: 0.01M PBS, pH 7.4, 50% glycerol, 0.05% Proclin 300

Molecular Weight: 37.57 kDa

Purity: > 90 % as determined by SDS-PAGE.

Biological Activity: One unit will cleave ≥95% of 1µg of recombinant mAb IgG in 30 minutes at 37°C

Protocol:
1. Add appropriate amount of IgG (to 5mg) in digestive juice;
2. Add IdeS protease to IgG samples: add 1 unit of IdeS per 1ug of IgG;
3. Incubate the sample at 37°C for 30-60min.

* IdeS proteases are most active in buffers at or near neutral pH. The recommended reaction buffer is 50 mM sodium phosphate and 150 mM NaCl (pH 6.6), but most common biological buffers are suitable, such as Tris or PBS. Buffers outside this pH range (such as acetate buffer) may also be suitable, but the incubation time or enzyme amount needs to be optimized according to the actual situation.

Storage & Stability: Store at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

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