



Product Information & Manual

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IdeZ Protease

Cat no. LDG0040RG

Product Overview

Description

IdeZ Protease is a recombinant enzyme originally isolated from *Streptococcus equi* subspecies *zooepidemicus* that cleaves IgG at a specific site in the lower hinge region. It serves as a complementary tool to IdeZ by offering broader specificity, effectively digesting mouse IgG2a and IgG3 subclasses which are typically resistant to other enzymes.

Expression system

Escherichia coli

Unit definition

One unit is defined as the amount of enzyme required to cleave $\geq 95\%$ of 1 μg recombinant human IgG in 30 minutes at 37°C.

Storage buffer

Lyophilized from 50 mM sodium phosphate, 150 mM NaCl, pH 6.6.

Reconstitution

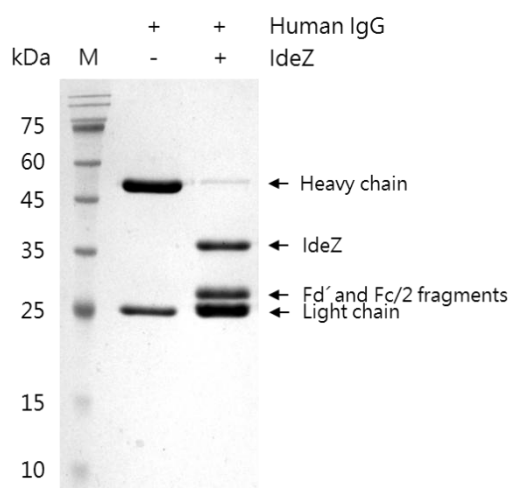
It is recommended to reconstitute the lyophilized protein by adding 50 μL of sterile H_2O to the 2500 U vial, or 500 μL of sterile H_2O to the 25 KU vial to a final concentration of 50 U/ μL . Incubate the solution for at least 10 minutes to ensure sufficient re-dissolved.

Storage and Stability

This product is stable after storage at -20°C for 12 months in lyophilized state from date of receipt. Upon reconstitution, protein aliquots should be stored at 4°C.

Procedure

1. Prepare the antibody sample in a neutral reaction buffer (eg. 50 mM sodium phosphate, 150 mM NaCl, pH 6.6 or PBS, pH 7.4).
2. Add IdeZ Protease to the sample at a ratio of 1 unit of enzyme per 1 μg of IgG antibody.
3. Gently mix the reaction and incubate at 37°C for 30-60 minutes.
4. Determine F(ab')₂ and Fc fragments using SDS-PAGE analysis.



The standard assay was performed by incubating 2 units of IdeZ Protease and 2 μg of recombinant human IgG under the above condition and analyzed by SDS-PAGE

Disclaimer

For Research Use or Further Manufacturing Only.