

Product Information | Certification of Analysis

I Product Information

CAS: 916777-57-6

Lot No.

rldeZ I Mass Spec Grade

Part No.NameSizeHLS IDEZ001rldeZ20 μgHLS PBS001digestion buffer0.5 mL

Description: rideZ, MS grade, is an engineered recombinant protease overexpressed in *Escherichia coli*. It cleaves specifically at a single recognition site below the hinge region to produce homogenous F(ab')2 and Fc fragments. Both IdeS and IdeZ proteases effectively cleave human IgG1, IgG2, IgG3, and IgG4, monkey, sheep, rabbit, humanized and chimeric IgG, and Fc fusion proteins. However, only the IdeZ protease cleaves mouse IgG2a and IgG3.

Physical Appearance: Lyophilized powder

Molecular Weight: 37 kDa

Resuspension Buffer (reference): 40 μ L double-distilled water from user Digestion Buffer: 10X 50 mM PBS, 150 mM NaCl (pH 6.6) solution

Storage Conditions: Powder at -20 °C

Shelf Life: 24 months at -20 °C

pH Range: Maximally active at pH 6-8

Application: rldeS protease is an IgG-specific degradation enzyme to produce homogeneous F(ab')2 and Fc

fragments.

In-Solution Protein Digestion Protocol (Recommended):

- 1. Mix 5 μL 10X enzyme digestion buffer (HLS PBS001) and double-distilled water.
- 2. Add 10 μ L 10 μ g/ μ L mAb samples to the mixture.
- 3. Add 4 μ L 0.5 μ g/ μ L rIdeS (HLS IDE001) to the mixture to total reaction volume of 50 μ L.
- 4. Incubate at 37 °C for 30 min.

I Quality Control

Purity: > 99.5%

Specificity: > 99.3% purity of mAb antibody samples after rIdeS digestion and elution with mAB pH ion mobility

buffer, analyzed by UPLC chromatography with SCX 2.1*50 mm column.

Activity: 50 units/µg

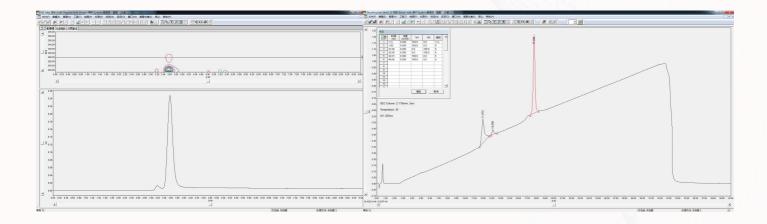
Unit Definition: One unit is the amount of 1 μ g rldeZ required to produce 50 μ g substrate IgG antibody at 37 °C in 30

min.

MALDI-TOF Analysis: Purified rldeZ was analyzed by HCCA matrix laser analytical mass spectrometry. No impurity

peak was found.





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