

Recombinant IdeS, Mass Spec Grade

Cat. No. IdeS-44 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	riIdeS, mass spec grade, is an engineered recombinant protease overexpressed in Escherichia coli.
Source	E.coli
Description	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.
Form	Lyophilized powder
Bio-activity	50 units/μg
Molecular Mass	37 kDa
Purity	> 99.5 %
Applications	riIdeS protease is an IgG-specific degradation enzyme to produce homogeneous F(ab') ₂ and Fc fragments.
Storage	Store lyophilized powder at -20 centigrade.
CAS No.	916777-57-6

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Shelf life	24 months at -20 centigrade
Usage Notes	In-Solution Protein Digestion Protocol (Recommended): 1. Mix 5 μ L 10 $\times$ enzyme digestion buffer 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 to the mixture to total reaction volume of 50 μ L. 4. Incubate at 37 centigrade for 30 min.
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.
Unit Definition	One unit is the amount of 1 μ g IdeS required to produce 50 μ g substrate IgG antibody at 37 centigrade in 30 min.
Resuspension Buffer	40 μ L double-distilled water from user
MALDI-TOF Analysis	Purified rIdes was analyzed by HCCA matrix laser analytical mass spectrometry. No impurity peak was found.
pH Range	Maximally active at pH 6-8
Digestion Buffer	10 $\times$ 50 mM PBS, 150 mM NaCl (pH 6.6) solution