

ATAGENIX LABORATORIES

Catalog Number:ATE00014 IdeZ Protease

ATES

Product overview

Product Name	IdeZ Protease
Catalog No.	ATE00014
Expression host	E.coli
Restriction sites	The protease has very high substrate specificity, can only recognize IgG, and
	digest at specific site in the lower hinge region of the antibody to hydrolyze IgG
	into intact F (ab ') 2 and Fc fragments.
MW	38 kDa
Purity	>95% as determined by SDS-PAGE quantitative densitometry by Coomassie Blue
	Staining.
Enzyme activity	50U/µI
Concentration	The unit enzyme activity of different batches of IdeZ protease can be determined
	by SDS-PAGE of cleavage of recombinant IgG.
Unit Definition	The amount of enzyme required to shear 1µg of recombinant monoclonal IgG>
	95% at 37°C for 30 min is defined as an active unit.
Digestion reaction condition	37°C, 30min
Tag	N-terminal His Tag
Product performance	
Form	Liquid
Buffer	PBS pH7.5, 50% glycerol
Storage	Store at -20 °C for 12 months from the date of receipt.
Standard Operating Procedure	

Recommendations:

1. Add appropriate amount of IgG (maximum amount 5mg) to digestion buffer or other suitable buffer;

2. Add IdeZ protease to IgG samples: add 1 unit of IdeZ per 1µg IgG;

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3. Incubate the sample at 37 ° C for 30-60min. IdeZ proteases are most active in buffers at or near neutral pH. The recommended reaction buffer is 50 mM sodium phosphate, 150 mM NaCl (pH 6.6). Many common biological buffers such as Tris or PBS can also be used. When using a buffer (such as acetate buffer) outside this pH range, the incubation time or enzyme amount needs to be optimized according to the actual situation.

Notices :

1. Ideal concentration of IgG: 1-20mg/ml;

2. IdeZ protease efficiently cleaves human, humanized, chimeric, sheep, rabbit and monkey IgG and mouse IgG2a and IgG3. IdeZ protease will also cleave many Fc fusion proteins and antibody-drug conjugates (ADC);

3. IdeZ protease does not cleave mouse IgG1 / IgG2b, rat, pig, cow or goat IgG. IdeZ protease will not cleave non-IgG isotypes, including IgA, IgM, IgD and IgE;

4. IdeZ protease has His tag, which is easy to remove;

5. IdeZ protease can be used in the same reaction with PNGase F (Catalogue No. ATE00005), using the recommended digestion buffer to complete Fc glycans remove.