ATAGENIX LABORATORIES

Catalog Number:ATE00010

IdeS Protease

Product overview

Product Name	IdeS Protease
Catalog No.	ATE00010
Expression host	E.coli
Restriction sites	IdeS Protease cleaves IgG at a single site below the hinge region, yielding F(ab')2 and Fc fragments .
MW	37.56 kDa
Purity	>95% as determined by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.
Enzyme activity	20U/μl
Concentration	20000U/mg
Unit Definition	One unit will cleave ≥95% of 1μg of recombinant monoclonal IgG in 30 minutes at 37°C.
Digestion reaction condition	37℃, 30min
Tag	N-terminal His Tag

Product performance

Form	Liquid
Buffer	PBS pH 7.5, 50%glycerol.
Storage	Store at -20 °C for 12 months from the date of receipt.

Standard Operating Procedure

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.