

IdeS Protease (IgG specific)

Summary

Catalog No. YXX05001

Form Liquid

Storage buffer 0.01M PBS, pH 7.4, 50% glycerol

Concentration 40000U/ml

Purity >90% as determined by SDS-PAGE.

Applications Proteomics

Target IdeS Protease (IgG Specific)

One unit will cleave ≥95% of 1µg of recombinant monoclonal IgG in 30 Biological activity

minutes at 37°C.

Endotoxin level Please contact with the lab for this information.

Expression system E. coli

Protein length IdeS Protease is cloned from Streptococcus pyogenes and expressed in

E.coli.

Nature Recombinant

Predicted molecular weight 37.57 kDa

Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store

at 2 to 8 °C for one week .Store at -20 to -80 °C for twelve months from

the date of receipt.

Stability and Storage





Digestion reaction condition

37°C, 30min

Protocol

1. Add appropriate amount of IgG (to 5mg) in digestive juice;

Experimental Procedure

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.

Species Streptococcus pyogenes

In general, proteins are provided as lyophilized powder/frozen liquid.

Shipping They are shipped out with dry ice/blue ice unless customers require

otherwise.

Note For research use only.

Description

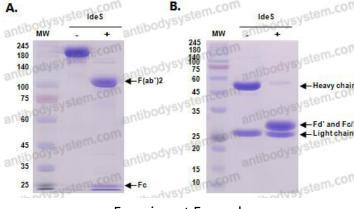
IdeS Protease is an immunoglobulin-degrading enzyme from Streptococcus pyogenes (IdeS). It cleaves Immunoglobulin G (IgG) with high specificity at a single site below the hinge region, yielding F(ab') 2 and Fc fragments.



Data Image



SDS PAGE for recombinant Streptococcus pyogenes IdeS Protease



Experiment Example

Results of trastuzumab digestion separated under nonreducing and reducing conditions.

Trastuzumab (10 ug) was incubated with 10 units of IdeS Protease for 30 minutes at 37°C using the recommended digestion buffer (50mM sodium phosphate, 150mM NaCl [pH 6. 6]).

The digestion products were analyzed by SDS-PAGE under nonreducing (Panel A) and reducing (Panel B) conditions.