

## IdeZ protease from *Streptococcus equi* ssp. *Zooepidemicus*, Recombinant

Cat. No. NATE-1599

Lot. No. (See product label)

### Introduction

**Description** IdeZ protease digests mouse IgG2a and IgG3 at one specific site, below the hinge region, producing a homogenous pool of F(ab')<sub>2</sub> and Fc fragments. Most mouse IgG2a are digested by IdeZ protease within 2 hours although the enzyme:ab ratio and/or digestion time may need to be optimized for certain antibodies. Since IdeZ protease only cleaves at one specific site, below the hinge region, there is no risk of over digestion if the incubation time is prolonged for several hours. IdeZ protease digests IgG under physiological reaction conditions thus preserving the immunoreactivity.

**Synonyms** FabRICATOR Z; IdeZ protease

### Product Information

**Species** *Streptococcus equi* ssp. *Zooepidemicus*

**Source** E.coli

**Appearance** White to light yellow powder

**Form** Lyophilized powder with no preservatives added

**Purity** > 95% homogeneity as determined by SDS-PAGE analysis using Coomassie Blue detection.

**Optimum pH** 7.6 (7.4-7.8)

**Unit Definition** One unit digests > 95% of 1µg mouse IgG2a when incubated in 10 mM Tris, 10 mM NaCl, pH 6.5 at 37°C for 2 hours.

### Storage and Shipping Information

**Storage** at -20°C

**Stability** The enzyme is reconstituted by addition of water and after reconstitution IdeZ protease is stable for 1 month at +4-8°C. The product is shipped at ambient temperature but should be stored at -20°C upon arrival.