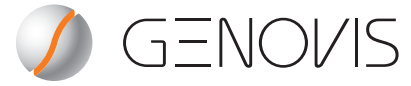


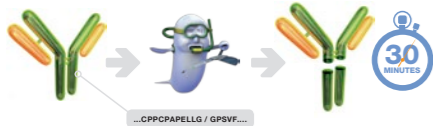
# SmartEnzymes™



# Genovis SmartEnzymes™

## PROTEASES

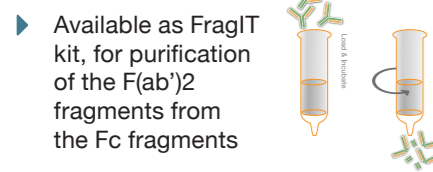
### FabRICATOR®



- ▶ Specific - one precise digestion site below the hinge
- ▶ Rapid - a 30 minute protocol
- ▶ No risk of overdigestion
- ▶ Works in serum - only digests IgG

### FragIT™

- ▶ Immobilized FabRICATOR for easy generation of F(ab')<sub>2</sub> and Fc/2 from IgG



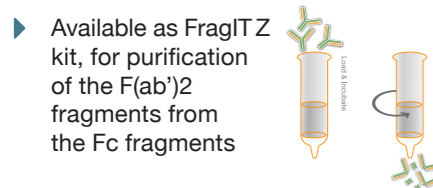
### FabRICATOR® Z



- ▶ Enhanced and rapid digestion of mouse IgG2a below the hinge
- ▶ Rapid generation of F(ab')<sub>2</sub> and Fc/2 fragments
- ▶ No risk of overdigestion

### FragIT™ Z

- ▶ Immobilized FabRICATOR Z for easy generation of F(ab')<sub>2</sub> and Fc/2 from mouse IgG2a



- ▶ Available as FragIT Z kit, for purification of the F(ab')<sub>2</sub> fragments from the Fc fragments

### FabALACTICA™



- ▶ High specificity for digestion above the hinge of human IgG1
- ▶ No need for reducing agents or co-factors
- ▶ No risk of overdigestion
- ▶ Active in pH 6-8

### GingisKHAN®



- ▶ Specific - one precise digestion site above the hinge of human IgG1
- ▶ Generates intact Fab fragments
- ▶ Rapid - a 60 minute digestion protocol
- ▶ Comes with ready-to-use reaction buffer additive for convenient and reliable performance

### GingisKHAN® Fab kit

GingisKHAN Fab kit is used for rapid and easy preparation and purification of Fab fragments from human IgG1 antibodies.

- ▶ Rapid - a 90 minute protocol for digestion and purification
- ▶ High Fab yield, typically above 90% recovery of Fab fragments

### FabULOUS®



- ▶ Digestion of IgG under reducing conditions in the hinge region
- ▶ Active on several IgG species, including human, mouse, rat and goat
- ▶ A rapid general protocol - 1 hour digestion

### FabULOUS® Fab kit

- ▶ Preparation of Fab fragments from mouse IgG antibodies
- ▶ Mild reducing conditions ensures intact Fab fragments
- ▶ Rapid protocol and easy to use

### GingisREX™



- ▶ Specific activity C-terminally of arginine residues
- ▶ Active on Arg-Pro linkages
- ▶ Active in 6M urea and at pH 5.5-9.0
- ▶ C-terminal arginine

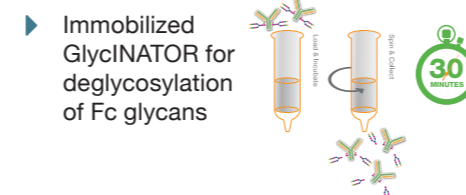
## GLYCOSIDASES

### GlycINATOR®



- ▶ Fc glycan specific endoglycosidase
- ▶ Hydrolyzes all glycoforms of IgG, including high-mannose and bisected glycans
- ▶ Rapid deglycosylation of native IgG - a 30 minute protocol

### Immobilized GlycINATOR®



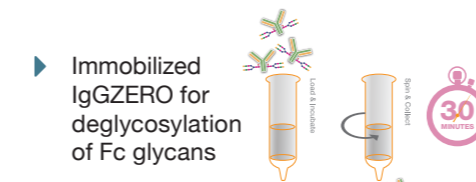
- ▶ Immobilized GlycINATOR for deglycosylation of Fc glycans

### IgGZERO®



- ▶ Fc glycan specific endoglycosidase
- ▶ Rapid deglycosylation of native IgG - a 30 minute protocol
- ▶ Works in serum - only deglycosylates IgGs
- ▶ Limited activity on high-mannose and hybrid type glycans

### deGlycIT™



- ▶ Immobilized IgGZERO for deglycosylation of Fc glycans

## CONJUGATION

### GlyCLICK™



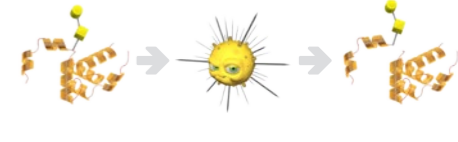
- ▶ Site-specific labeling of antibodies
- ▶ Degree of label (DOL) = 2
- ▶ Intact immunoreactivity
- ▶ Robust performance
- ▶ Modular technology

#### Available labels

- ▶ GlyCLICK™ Alexa Fluor® 488
- ▶ GlyCLICK™ DFO
- ▶ GlyCLICK™ Biotin
- ▶ GlyCLICK™ Azide Activation

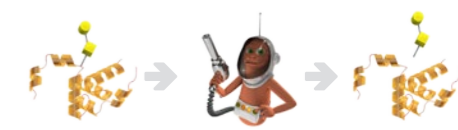
## O-GLYCANS

### OpeRATOR™



- ▶ O-glycan specific endoprotease
- ▶ Digests N-terminally of O-glycans, at serine or threonine residues
- ▶ Requires O-glycans for activity - no activity on glycoproteins with only N-glycans
- ▶ Increased performance when pretreated with SialEXO

### OglyZOR™



- ▶ Endoglycosidase acting on O-glycans
- ▶ Active on native glycoproteins
- ▶ Specific for core 1 and core 3 O-glycan disaccharides
- ▶ Requires pretreatment with SialEXO

### SialEXO™



- ▶ Acts on native glycoproteins
- ▶ Cleaves α2-3, α2-6 and α2-8-linked sialic acids
- ▶ Acts on both N- and O-linked glycans
- ▶ Hydrolyzes sialic acids within 2 h
- ▶ Compatible with OpeRATOR and OglyZOR

## US & Canada

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