



# IgASAP™ Sub1+2 Lyophilized



FOR RESEARCH USE ONLY

## **Instructions for Use**

IgASAP™ Sub1+2 Lyophilized 1000 units (I0-IA3-010)



# Lyophilized Enzyme for Above Hinge Digestion of Human IgA1 and IgA2m1

IgASAP Sub1+2 digests human IgA1 and IgA2m1 at one specific site above the hinge, generating intact and homogenous Fab and Fc fragments. IgASAP Sub1+2 digests both secretory and serum type IgA. The digestion site on human IgA1 is ...VTVPCP/VPSTPP... and the digestion site on human IgA2m1 is ...VTVPCP/VPPPPP...

IgASAP Sub1+2 is active at pH 6.0 to 8.0, does not require reducing conditions or co-factors for activity and tolerates salt concentrations up to 0.5 M NaCl.

IgASAP Sub1+2 is cloned from *Erysipelatoclostridium* ramosum and expressed in *E. coli*. The enzyme contains a His-tag and has a molecular weight of 131 kDa.

#### UNIT DEFINITION

One unit IgASAP Sub1+2 Lyophilized digests ≥90% of 1 µg human IgA of IgA1 and IgA2m1 type when incubated in PBS (10 mM sodium phosphate, 140 mM NaCl, 2.7 mM KCl), pH 7.4 at 37°C overnight (16-18 h).

#### **CONTENT AND STORAGE**

IgASAP Sub1+2 Lyophilized is supplied lyophilized in 50 mM Tris-HCl, 150 mM NaCl, pH 7.6, with no preservatives added. The enzyme is shipped at ambient temperature and should be stored at -20°C upon arrival.

After reconstitution, IgASAP Sub1+2 Lyophilized is stable for at least 1 month at +4-8°C.

IgASAP Sub1+2 is for R&D use only.

#### **QUALITY CONTROL**

IgASAP Sub1+2 Lyophilized is tested to meet the specifications and lot-to-lot consistency.

IgASAP Sub1+2 Lyophilized is tested for absence of microbial contamination with blood agar plates, Sabouraud dextrose agar plates and fluid thioglycollate medium.

## YOU MIGHT ALSO BE INTERESTED IN

#### IgASAP™ Sub1 Lyophilized

Lyophilized enzyme for above hinge digestion of human IgA1

#### FabRICATOR®

Below hinge digestion of IgG

### FabALACTICA®

Above hinge digestion of human IgG

#### IgMBRAZOR<sup>®</sup>

Digestion of IgM

#### GlySERIAS"

Hydrolysis of flexible linkers

## **Preparations**

## **Additional Materials Required**

 Digestion buffer: PBS (10 mM sodium phosphate, 140 mM NaCl, 2.7 mM KCl), pH 7.4 or TBS (50 mM Tris-HCl, 150 mM NaCl), pH 7.6.1

## **Sample Preparation**

Prepare the IgA1 and/or IgA2m1 substrate in the digestion buffer. The final IgA concentration in the digestion reaction should be 0.2-5.0 mg/ml.

Optimization may be required if a buffer other than the recommended is used.

# Above Hinge Digestion of Human IgA1 and IgA2m1

- 1. Prepare IgASAP Sub1+2
- 1.1 Reconstitute IgASAP Sub1+2 in 50 µl ddH<sub>2</sub>O to 20 units/µl.
- 2. Add IgASAP Sub1+2
- 2.1 Add 1 unit IgASAP Sub1+2 / 1 µg IgA.
- 3. Digestion
- 3.1 Incubate overnight (16-18h) at 37°C.2

 Some samples may require longer incubation time.
Due to the specificity of the enzyme, there is no risk of overdigestion if the incubation time is prolonged.

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IgASAP™ Sub1+2 Lyophilized

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