



IgASAP™ Sub1 Lyophilized



FOR RESEARCH USE ONLY

Instructions for Use

IgASAP[™] Sub1 Lyophilized 1000 units (I0-IA1-010) Process 1 mg human IgA1



Lyophilized Enzyme for Above Hinge Digestion of Human IgA1

IgASAP Sub1 is an IgA1-specific enzyme that digests human IgA1 at one specific site above the hinge, generating intact and homogenous Fab and Fc fragments. IgASAP Sub1 digests both secretory and serum IgA1. The digestion site on human IgA1 is ...VPSTPP/TPSPST...

IgASAP Sub1 is active at pH 6.5 to 8.0, does not require reducing conditions or co-factors for activity and tolerates salt concentrations up to 0.3 M NaCl.

IgASAP Sub1 is cloned from Streptococcus oralis and expressed in E. coli. The enzyme contains a His-tag and has a molecular weight of 148 kDa.

UNIT DEFINITION

One unit IgASAP Sub1 Lyophilized digests ≥90% of 1 µg human IgA1 when incubated in PBS (10 mM sodium phosphate, 140 mM NaCl 2.7 mM KCl), pH 7.4 at 37°C for 1 hour.

CONTENT AND STORAGE

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

IgASAP Sub1 is for R&D use only.

QUALITY CONTROL

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

IgASAP Sub1 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

FabRICATOR®

Below hinge digestion of IgG

FabALACTICA®

Above hinge digestion of human IgG1

IgMBRAZOR™

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 in the digestion buffer. The final IgA1 concentration in the digestion reaction should be 0.2-5 mg/ml.

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

Above Hinge Digestion of Human IgA1

- 1. Prepare IgASAP Sub1
- 1.1 Reconstitute IgASAP Sub1 in 50 µl ddH₂O to 20 units/µl.
- 2. Add IgASAP Sub1
- 2.1 Add 1 unit IgASAP Sub1 / 1 µg IgA1.
- 3. Digestion
- 3.1 Incubate for 1 hour at 37°C.2,3

- The optimal activity is obtained at 37°C. The digestion can be performed at room temperature using an increased incubation time. Optimization is then required.
- Some samples may require longer incubation time. There is no risk of overdigestion due to the specificity of the enzyme.

IgASAP™ Sub1 Lyophilized

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