SmartEnzymes™

GENOVIS

IgASAP™

Sub1 Lyophilized

STORE AT

-20°C

FOR RESEARCH USE ONLY

Instructions for Use

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

DOWNLOAD INSTRUCTIONS FOR USE

www.genovis.com/ifu-I0-IA1

www.genovis.com

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 derived 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 Lyophilized 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

- Reaction 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]

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

Above Hinge Digestion of Human IgA1

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

1. Prepare IgASAP Sub1

1.1 Reconstitute IgASAP Sub1 in 50 µl ddH_2O to a concentration of 20 units/µl.

2. Add IgASAP Sub1

2.1 Add 1 unit IgASAP Sub1 / 1 µg IgA1.

3. Enzymatic Reaction

3.1 Incubate for 1 hour at 37°C.[2,3]

2. 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.
3. Some samples may require longer incubation time. There is no risk of overdigestion due to the specificity of the enzyme.

USA & Canada
Genovis Inc.
10919 Technology Place Suite C, San Diego, CA 92127, USA
Phone: 1-855-782-0084 (toll free)
Fax: 1-858-524-3006

EMEA & Asia
Genovis AB
Box 4, SE-244 21 Kävlinge, Sweden
Phone: +46 46 10 12 30
Fax: +46 46 12 80 20

support@genovis.com
www.genovis.com

DOWNLOAD SAFETY DATA SHEET
www.genovis.com/sds-I0-IA1

All rights reserved. Genovis products may be covered by one or more patents, trademarks and copyrights owned or controlled by Genovis AB. For more information about commercial rights, please contact the Genovis team at licensing@genovis.com.

Genovis products are intended for research use only. They are not intended to be used for therapeutic or diagnostic purposes in humans or animals.

All goods and services are sold subject to Genovis' General Terms and Conditions of Sale.

© Genovis AB

COPYRIGHT © 2026, GENOVIS AB / IU-I0-IA1-EN-011

GENOVIS