Alpha-1-Acid Glycoprotein NATIVE, Human serum

Product Data Sheet

Type: Native
Source: Human pooled serum
Species: Human
Other names: AGP1, Orosomucoid-1, OMD1, ORM1

Cat. No.:
RD162340500 (0.5 mg)

Description

Native protein isolated from human pooled serum, 183 AA, MW 21,560 kDa (calculated without glycosylation).

Introduction to the Molecule

Alpha-1 Acidic-Glycoprotein is an acute phase protein, which is nonspecifically increased in the plasma during acute inflammation. It becomes the indication for acute and chronic inflammatory diseases and tissue injury.

Research topic

Immune Response, Infection and Inflammation, Oncology

Amino Acid Sequence

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QIPLCANLVP VPITNATLDQ ITGKWFYIAS AFRNEEYNKS VQEIQATFFY FTPNKTEDTI FLREYQTRQD QCIYNTTYLN
VQRENGTISR YVGGQEHFAH LLILRDTKTY MLAFDVNDEK NWGLSVYADK PETTKEQLGE FYEALDCLRI PKSDVVYTDW
KKDKCEPLEK QHEKERKQEE GES
```

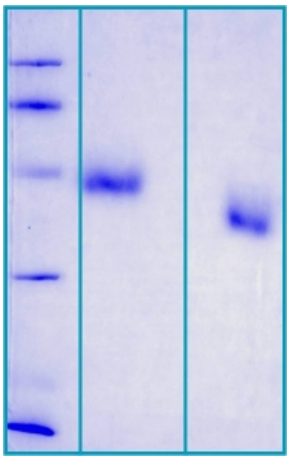
Source

Human pooled serum *(All blood samples used for protein preparation were tested and found negative for HBsAg, anti-HCV, HIV Ag/Ab, and syphilis.)*

Purity

Purity as determined by densitometric image analysis: >95%

SDS-PAGE gel



SDS-PAGE analysis of Human Alpha-1-acid glycoprotein 1 NATIVE protein
12% gel stained with Coomassie Brillant Blue R250

1) M.W. marker - 14, 21, 31, 45, 66, 97 kDa

2) reduced and heated sample, 2.5µg/lane

3) non-reduced and non-heated sample, 2.5µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7,5

Reconstitution

Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve

completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
LAL to determine quantity of endotoxin.

Applications

Cell culture and/or animal studies, ELISA, Immunological methods, Western blotting

Note

This product is intended for research use only. All blood samples used for protein preparation were tested and found negative for HBsAg, anti-HCV, HIV Ag/Ab, and syphilis. Since no test can absolutely assure the absence of all infectious agents, this product should be handled as a potential biohazard.

HEADQUARTERS: BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: Web:	info@biovendor.com sales@biovendor.com www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail:	infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail:	infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail:	infoUSA@biovendor.com