

# Human Alpha-2-Macroglobulin

**Cat. No.** A2M-4176H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Human A2M is a tetrameric glycoprotein, produced in Human plasma and having a molecular mass of 725 kDa.                                                                                                                                                    |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                       |
| <b>Source</b>              | Human                                                                                                                                                                                                                                                       |
| <b>Description</b>         | A2M is a serine proteases inhibitor, which inhibits coagulation by inactivating thrombin and Kallikrein, it inhibits fibrinolysis by inactivating plasmin and involved in insulin transport. A2M is a large plasma protein, which is produced by the liver. |
| <b>Form</b>                | Lyophilized from 0.02 M TRIS, 0.15 M NaCl and 0.1 M Sucrose, pH 8.0.                                                                                                                                                                                        |
| <b>Purity</b>              | Greater than 96.0%.                                                                                                                                                                                                                                         |
| <b>Physical Appearance</b> | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                   |
| <b>Storage</b>             | Human A2M although stable at room temperature for 3 weeks, should be stored between 2-8°C.                                                                                                                                                                  |

## GENE INFORMATION

|                        |                                            |
|------------------------|--------------------------------------------|
| <b>Gene Name</b>       | A2M alpha-2-macroglobulin [ Homo sapiens ] |
| <b>Official Symbol</b> | A2M                                        |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

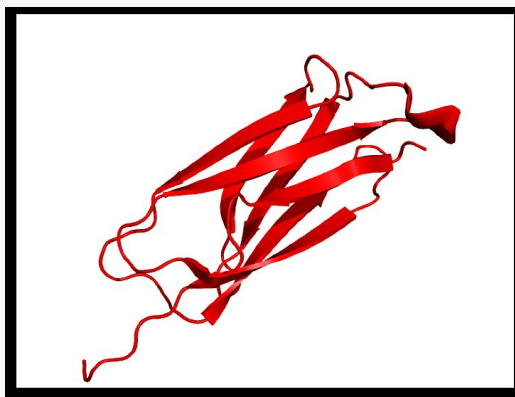
|                            |                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | A2M; alpha-2-macroglobulin; CPAMD5; FWP007; S863-7; DKFZp779B086; alpha-2-macroglobulin; alpha-2-M; OTTHUMP00000196829; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5                                                                                                                                             |
| <b>Gene ID</b>             | <a href="#">2</a>                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | <a href="#">NM_000014</a>                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>      | <a href="#">NP_000005</a>                                                                                                                                                                                                                                                                                                             |
| <b>MIM</b>                 | <a href="#">103950</a>                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>          | P01023                                                                                                                                                                                                                                                                                                                                |
| <b>Chromosome Location</b> | 12p13                                                                                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>             | Complement and Coagulation Cascades; Formation of Fibrin Clot ; Formation of Platelet plug; HDL-mediated lipid transport; Hemostasis; IL6-mediated signaling events; Intrinsic Pathway; Lipid digestion; Lipoprotein metabolism; Metabolism of lipids and lipoproteins; Platelet Activation; Platelet degranulation; Rho GTPase cycle |
| <b>Function</b>            | GTPase activator activity; enzyme binding; growth factor binding; interleukin-1 binding; interleukin-8 binding; protein binding; serine-type endopeptidase inhibitor activity; tumor necrosis factor binding                                                                                                                          |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Rendered from  
PDB2P9R



Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA