

Datasheet: 0640-5604

**BATCH NUMBER 164124**

|                      |                                  |
|----------------------|----------------------------------|
| <b>Description:</b>  | NATIVE HUMAN ALPHA 1 ANTITRYPSIN |
| <b>Name:</b>         | ALPHA 1 ANTITRYPSIN              |
| <b>Format:</b>       | Purified                         |
| <b>Product Type:</b> | Antigen                          |
| <b>Quantity:</b>     | 2 mg                             |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|       | Yes | No | Not Determined | Suggested Dilution |
|-------|-----|----|----------------|--------------------|
| ELISA | ▪   |    |                |                    |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                                       |                                                                                                                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>                 | Human                                                                                                                                                                                       |
| <b>Product Form</b>                   | Purified alpha 1 antitrypsin from human serum - liquid                                                                                                                                      |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                                                                                                                                   |
| <b>Preservative Stabilisers</b>       | None present                                                                                                                                                                                |
| <b>Approx. Protein Concentrations</b> | 2.0 mg/ml                                                                                                                                                                                   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P01009</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">5265</a>    SERPINA1    <a href="#">Related reagents</a></p> |
| <b>Synonyms</b>                       | AAT, PI                                                                                                                                                                                     |

**Product Information** Alpha 1 antitrypsin (A1AT) is a glycoprotein of MW 54 kDa with a pI of 4.8. It is a serine protease inhibitor that acts to limit the amount of cell damage and death at the tissue site. Different isoenzymes exist which together form the Protease inhibitor system. Phenotype M is the most common and certain variants (S and Z) are associated with A1AT deficiency which can lead to emphysema and liver disease.

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**Protein Molecular Weight** 54 kDa

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**Purity** SDS PAGE: >96%  
Identity was confirmed by radial immunodiffusion, SDS-PAGE and cellulose acetate electrophoresis.

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**Storage** Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10209 available at:  
<https://www.bio-rad-antibodies.com/SDS/0640-5604>  
10209

Donor material tested and found negative for HIV1 and 2 antibodies, HBsAg and HCV antibodies.

As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious

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**Regulatory** For research purposes only

**North & South America** Tel: +1 800 265 7376  
Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M362867:200528'

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