

Datasheet: 0640-5604

**BATCH NUMBER 180221**

<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>  <a href="#">P01009</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <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.

---

**Protein Molecular Weight** 54 kDa

---

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

---

**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.

---

**Guarantee** 12 months from date of despatch

---

**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

---

**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'

**Printed on 18 Jan 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)