

Datasheet: 7600-0604

**BATCH NUMBER 145330**

<b>Description:</b>	NATIVE HUMAN PREALBUMIN
<b>Name:</b>	PREALBUMIN
<b>Other names:</b>	TRANSTHYRETIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Purified Protein
<b>Quantity:</b>	1 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 protein from human serum - lyophilized
<b>Reconstitution</b>	Reconstitute with 1.0 ml sterile PBS. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Buffer Solution</b>	0.02M Ammonium bicarbonate (NH <sub>4</sub> HCO <sub>3</sub> ).
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	Total protein concentration 1.0 mg/ml after reconstitution.
<b>External Database Links</b>	<b>UniProt:</b> <a href="https://www.uniprot.org/entry/P02766">P02766</a> <a href="#">Related reagents</a>

**Entrez Gene:**[7276](#) TTR [Related reagents](#)**Synonyms**

PALB

**Product Information**

**Native human prealbumin**, also known as transthyretin, is a homotetrameric serum and cerebrospinal fluid protein which acts as a carrier for the thyroid hormone thyroxine. Each monomer is a 127 amino acid polypeptide. Prealbumin is synthesised principally in the liver and choroid plexus from where it is secreted into the serum and cerebrospinal fluid respectively.

**Protein Molecular Weight**

60 kDa (tetramer)

**Purity**

&gt;96%

SDS-PAGE confirms prealbumin as the major component. Under certain conditions dimer and monomer subunits can be seen. Cellulose acetate electrophoresis shows one band only with a higher electrophoretic mobility than albumin.

**References**

1. Clement, C.C. *et al.* (2016) Autoimmune response to transthyretin in juvenile idiopathic arthritis. [JCI Insight. 1 \(2\): e85633.](#)
2. Cheng, S. *et al.* (2021) Novel blood test for early biomarkers of preeclampsia and Alzheimer's disease. [Sci Rep. 11 \(1\): 15934.](#)

**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**

Guaranteed until date of expiry. Please see product label.

**Health And Safety Information**

Material Safety Datasheet documentation #10517 available at:  
<https://www.bio-rad-antibodies.com/SDS/7600-0604>  
10517

Donor material tested and found negative for HIV1 and 2 antibodies, HBsAg, HCV antibodies and HIV antigen P24.

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

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

'M362545:200514'

**Printed on 18 Jan 2024**

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