

## Product datasheet for **TP322845M**

### Antithrombin III (SERPINC1) (NM\_000488) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human serpin peptidase inhibitor, clade C (antithrombin), member 1 (SERPINC1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222845 representing NM_000488 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MYSNVIGTVTSGKRKVYLLSLLLIGFWDCVTCGSPVDICTAKPRDIPMNPNCIYRSPEKKATEDEGSEQ  
KIPEATNRRVWELSKANSRFATTFYQHLADSKNDNDNIFLSPLSISTAFAMTKLGACNDTLQQLMEVFKF  
DTISEKTSQIHFFFAKLNCRLYRKANKSSKLVSANRLFQDKSLTFNETYQDISELVYGAKLQPLDFKEN  
AEQSRAAINKWVSNKTEGRITDVIPSEAINELTVLVLVNTIYFKGLWKSFPENTRKELFYKADGESCS  
ASMMYQEGKFRYRVAEGTQVLELPFKGDDITMVLILPKPEKSLAKVEKELTPEVLQEWLDELEEMMLVV  
HMPRFIEDGFSLKEQLQDMGLVDLFSPEKSKLPGIVAEGRDDLVSDAFHKAFLVNEEGSEAAASTAV  
VIAGRSLNPNRVTFKANRPFLVFIREVPLNTIIFMGRVANPCVK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	49 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_000479](#)

Locus ID: 462

UniProt ID: [P01008](#)

RefSeq Size: 1559

Cytogenetics: 1q25.1

RefSeq ORF: 1392

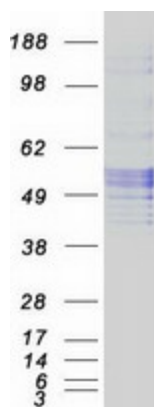
Synonyms: AT3; AT3D; ATIII; ATIII-R2; ATIII-T1; ATIII-T2; THPH7

**Summary:** The protein encoded by this gene, antithrombin III, is a plasma protease inhibitor and a member of the serpin superfamily. This protein inhibits thrombin as well as other activated serine proteases of the coagulation system, and it regulates the blood coagulation cascade. The protein includes two functional domains: the heparin binding-domain at the N-terminus of the mature protein, and the reactive site domain at the C-terminus. The inhibitory activity is enhanced by the presence of heparin. Numerous mutations have been identified for this gene, many of which are known to cause antithrombin-III deficiency which constitutes a strong risk factor for thrombosis. A reduction in the serum level of this protein is associated with severe cases of Coronavirus Disease 19 (COVID-19). [provided by RefSeq, Sep 2020]

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Complement and coagulation cascades

### Product images:



Coomassie blue staining of purified SERPINC1 protein (Cat# [TP322845]). The protein was produced from HEK293T cells transfected with SERPINC1 cDNA clone (Cat# [RC222845]) using MegaTran 2.0 (Cat# [TT210002]).