

## Antithrombin (AT) Recombinant Protein | AT recombinant protein

Recombinant Antithrombin (AT)

|                               |                       |                                                                           |
|-------------------------------|-----------------------|---------------------------------------------------------------------------|
| CATALOG #<br><b>AAA135554</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>Immunoprecipitation, ELISA, Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------|---------------------------------------------------------------------------|

### PRODUCT SYNONYMS

Antithrombin (AT); Recombinant Antithrombin (AT); AT recombinant protein

### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Purity/Purification                                | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format                                        | Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence                                           | Thetargetp roteinisfu sedwithN-t erminaiHis -Tag,itsse quenceisli stedbelow.<br>MGHHHH HHSSEF-HG SPVDICTAKP RDIPMNPMCI YRSPEKKATE DEGSEKPIE ATNRRVWELS<br>KANSRFATTF YQHLADSKND NDNIFLSPLS ISTAFAMTKL GACNDTLQQL MEVFKFDTIS EKTSDQIHFF<br>FAKLNCRLYR KANKSSKLVS ANRLFGDKSL TFNETYQDIS ELVYGAKLQP LDFKENAEQS RAAINKWWSN<br>KTEGRITDVI PSEAINELTV LVLVNTIYFK GLWKSFSPE NTRKELFYKA DGESCSASMM YQEGKFRYRR<br>VAEGTQVLEL PFKGDDITMV LILPKPEKSL AKVEKELTPE VLQEWLDELE EMMLVVHMMPR FRIEDGFSLK<br>EQLQDMGLVD LFSPEKSKLP GIVAEGRDDL YVSDAFHKAF LEVNEEGSEA AASTAVVIAG RSLNPNRVTF<br>KANRPFLVFI REVPLNTIIF MGRVANPCVK              |
| Sequence Length                                    | 464                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applicable Applications for AT recombinant protein | IP (Immunoprecipitation), ELISA, WB (Western Blot), SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Organism                                           | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Expression System                                  | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Residues                                           | His33~Lys464 (Accession # P01008) with N-terminal His-Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Subcellular Location                               | Secreted, extracellular space                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Endotoxin Level                                    | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Predicted Isoelectric Point                        | 6.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reconstitution                                     | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage                            | Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months.<br>Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test,that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. (Referring from China Biological Products Standard,which was calculated by the Arrhenius equation.) The loss of this protein is lessthan 5% within the expiration date under appropriate storage condition. |

IMAGES



SDS-PAGE



Sequence

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4502261                                                                                       |
| NCBI GeneID                      | 462                                                                                           |
| NCBI Accession #                 | NP_000479.1                                                                                   |
| NCBI GenBank Nucleotide #        | NM_000488.3                                                                                   |
| UniProt Accession #              | P01008; P78439; P78447; Q13815; Q5TC78; Q7KZ43; Q7KZ97; Q9UC78; B2R6P0                        |
| Molecular Weight                 | 50.6kDa                                                                                       |
| NCBI Official Full Name          | antithrombin-III                                                                              |
| NCBI Official Synonym Full Names | serpin peptidase inhibitor, clade C (antithrombin), member 1                                  |
| NCBI Official Symbol             | SERPINC1                                                                                      |
| NCBI Official Synonym Symbols    | AT3; AT3D; ATIII; THPH7                                                                       |
| NCBI Protein Information         | antithrombin-III; serine (or cysteine) proteinase inhibitor, clade C (antithrombin), member 1 |
| UniProt Protein Name             | Antithrombin-III                                                                              |
| UniProt Gene Name                | <b>SERPINC1</b>                                                                               |
| UniProt Synonym Gene Names       | AT3; ATIII                                                                                    |
| UniProt Entry Name               | ANT3_HUMAN                                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.