

Product datasheet for PH322845

Antithrombin III (SERPINC1) (NM_000488) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | SERPINC1 MS Standard C13 and N15-labeled recombinant protein (NP_000479) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC222845 |
| Predicted MW: | 52.6 kDa |
| Protein Sequence: | >RC222845 representing NM_000488 Red=Cloning site Green=Tags(s) |

MYSNVIGTVTSGKRKYVLLSLLLIGFWDCVTCGSPVDICTAKPRDIPMNPNCIYRSPEKKATEDEGSEQ
KIPEATNRRVWELSKANSRFATTFYQHLADSKNDNDNIFLSPLSISTAFAMTKLGACNDTLQQLMEVFKF
DTISEKTSQIHFHFAKLNCRLYRKANKSSKLVANRFLGDKSLTFNETYQDISELVYGAKLQPLDFKEN
AEQSRAAINKWSNKTEGRITDVIPSEAINELTVLVLVNTIYFKGLWKSFKSPENTRKELFYKADGESCS
ASMMYQEGKFRYRRVAEGTQVLELPEFKGDDITMVLILPKPEKSLAKVEKELTPEVLQEWLDEEMMLVV
HMPFRFRIEDGFSLKEQLQDMGLVDLFSPEKSKLPGIVAEGRDDLYVSDAFHKAFLEVNEEGSEAAASTAV
VIAGRSLNPNRVTFKANRPFLVIREVPLNTIIFMGRVANPCVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | <u>NP_000479</u> |
| RefSeq Size: | 1559 |
| RefSeq ORF: | 1392 |
| Synonyms: | AT3; AT3D; ATIII; ATIII-R2; ATIII-T1; ATIII-T2; THPH7 |



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Locus ID: 462

UniProt ID: [P01008](#), [A0A024R944](#)

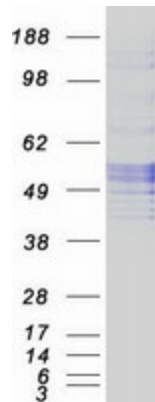
Cytogenetics: 1q25.1

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]).