

Human TPA1 (H357V, S532T) Protein, His Tag (HPLC verified)

Catalog # TP1-H52H3



Synonyms

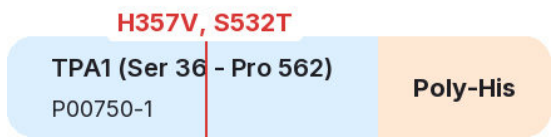
TPA1

Source

Human TPA1 (H357V, S532T) Protein, His Tag (TP1-H52H3) is expressed from human 293 cells (HEK293). It contains AA Ser 36 - Pro 562 (Accession # [P00750-1](#) (H357V, S532T)).

Predicted N-terminus: Ser 36

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 60.9 kDa. The protein migrates as 60-70 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-HPLC.

Formulation

Lyophilized from 0.22 µm filtered solution in 25 mM MES, 0.5 M Arginine, 150 mM NaCl, pH5.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

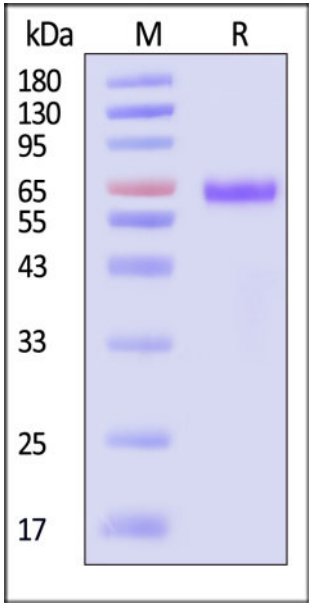
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

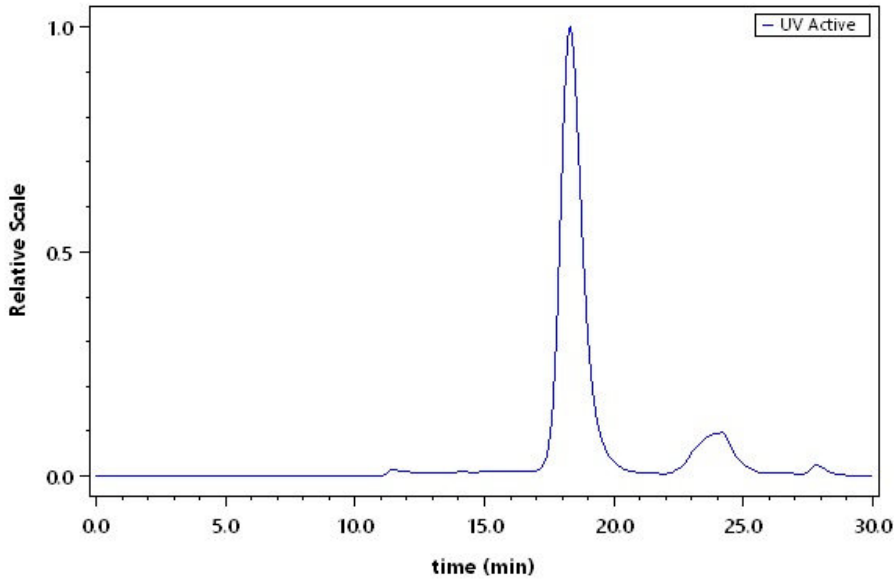
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Human TPA1 (H357V, S532T) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



The purity of Human TPA1 (H357V, S532T) Protein, His Tag (Cat. No. TP1-H52H3) was greater than 95% as determined by SEC-HPLC.

Background

Tissue plasminogen activator (t-PA, encoded by the PLAT gene) is a crucial serine protease secreted by endothelial cells. It plays a central role in the fibrinolytic system by converting plasminogen into active plasmin, which subsequently degrades fibrin clots and restores blood flow. Because of its powerful thrombolytic properties, recombinant t-PA is widely utilized as a frontline emergency treatment for acute ischemic stroke and myocardial infarction. Beyond hemostasis, t-PA is also involved in tissue remodeling and central nervous system signaling.



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