

32-6928: tPA Human, Sf9

Alternative Name : Tissue-type plasminogen activator, EC 3.4.21.68, tPA, t-PA, t-plasminogen activator, TPA, T-PA, DKFZp686I03148, PLAT and tPA.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Tissue plasminogen activator (abbreviated PLAT or tPA) is a secreted serine protease which converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. Plasminogen is synthesized as a single chain which is cleaved by PLAT into the two chain disulfide linked plasmin. This enzyme plays a role in cell migration and tissue remodeling. Increased enzymatic activity causes hyperfibrinolysis, which manifests as excessive bleeding; decreased activity leads to hypofibrinolysis which can result in thrombosis or embolism.

tPA Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 545 amino acids (24-562 a.a) and having a molecular mass of 61.3kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). tPA is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 1 µg / 5 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : tPA protein solution (0.25mg/ml) containing 50mM MES buffer (pH 5.5), 40% glycerol, 5mM CaCl₂, 1mM DTT and 0.5M NaCl.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : QEIHARFRRG ARSYQVICRD EKTQMIYQQH QSWLRPVLRS NRVEYWCNS GRAQCHSVPV
KSCSEPRCFN GGTCQQALYF SDFVCQCEPQ FAGKCCEIDT RATCYEDQGI SYRGTWSTAE
SGAECTNWNS SALAQKPYSR RRPDAIRLGL GNHNYCRNPD RDSKPWCYVF KAGKYSSEFC
STPACSEGNs DCYFGNGSAY RGTHSLTESG ASCLPWNSMI LIGKVYTAQN PSAQALGLGK HNYCRNPDGD
AKPWCHVLKN RRLTWEYCDV PSCSTCGLRQ YSQPFRIKG GLFADIASHP WQAAIFAKHR RSPGERFLCG
GILISSCWIL SAAHCFQERF PPHHLTVILG RTYRVVPGEE EQKFEVEKYI VHKEFDDDTY DNDIALQLK
SDSSRCAQES SVVRTVCLPP ADLQLPDWTE CELSGYGKHE ALSPFYSERL KEAHVRLYPS SRCTSQHLLN
RTVTDNMLCA GDTRSGGPQA NLHDACQGDS GGPLVCLNDG RMTLVGIISW GLGCGQKDVP
GVYTKVTNYL DWIRDNMRPHHHHHH.