
Product Data Sheet

Product Name: tPA Human, Sf9

Cat. No.: GP22313

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Tissue-type plasminogen activator; EC 3.4.21.68; tPA; t-PA; t-plasminogen activator; TPA; T-PA; DKFZp686I03148; PLAT and tPA.

Amino Acid Sequence
 QEIHARFRRG ARSYQVICRD EKTQMIYQQH QSWLRPVLRS NRVEYCWCNS
 GRAQCHSVPV KSCSEPRCFN GGTCQQALYF SDFVCQCEG FAGKCCEIDT
 RATCYEDQGI SYRGTWSTAE SGAECTNWNS SALAQKPYSG 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.

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

Introduction

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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