
Product Data Sheet

Product Name: TPA (36-310) Human

Cat. No.: GP22315

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; Alteplase; Reteplase; Plasminogen Activator; Tissue; Plasminogen/Activator Kringle.

Amino Acid Sequence ADPSYQVICR DEKTQMIYQQ HQSWLRPVLR SNRVEYCWCN SGRAQCHSVP VKSCSEPRCF NGGTCQQALY FSDFVCQCPE GFAGKCCEID TRATCYEDQG ISYRGTWSTA ESGAECTNWN SSALAQKPYS GRRPDAIRLG LGNHNYCRNP DRDSKPWCYV FKAGKYSSEF CSTPACSEGN SDCYFGNGSA YRGTHSLTES GASCLPWNSM ILIGKVYTAQ NPSAQUALGLG KHNYCRNPDG DAKPWCHVLK NRRLTWEYCD VPSCSTCGLR QYSQPQFRHH HHHH.

Formulation TPA protein solution (0.25mg/ml) contains 50mM MES(pH5.5), 10% glycerol, 100mM NaCl and 5mM CaCl₂.**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

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%

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TPA Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 284 amino acids (36-310a.a.) and having a molecular mass of 32.0kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). TPA is expressed with a 6 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA