
Product Data Sheet

Product Name: TPA (311-562) Human
 Cat. No.: GP22314
 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	ADPIKGGLFA DIASHPWQAA IFAKHRRSPG ERFLCGGILI SSCWILSAAH CFQERFPPHH LTVILGRTYR VVPGEEEEQKF EVEKYIVHKE FDDDTYDNDI ALLQLKSDSS RCAQESSVVR TVCLPPADLQ LPDWTECELS GYGKHEALSP FYSERLKEAH VRLYPSSRCT SQHLLNRTVT DNMLCAGDTR SGGPQANLHD ACQGDSGGPL VCLNDGRMTL VGIISWGLGC GQKDVPGVYT KVTNYLDWIR DNMRPHHHHH H.		
Formulation	TPA protein solution (0.5mg/ml) contains 50mM MES (pH 5.0), 5mM CaCl ₂ , 1mM DTT, 0.5M NaCl and 30% glycerol.		

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

Background

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

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TPA Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 261 amino acids (311-562 a.a.) and having a molecular mass of 29.2kDa (Migrates at 28-40kDa on SDS-PAGE under reducing conditions). TPA is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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