Product Data Sheet

Product Name:	tPA Human
Cat. No.:	GP22312
Batch No.:	1

Product Data

Purity	>98%	Source	Chinese Hamster Ovary Cells (CHO)
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tissue-type plasminogen activator; EC 3.4.21.68; tPA; t-PA; t-plasminogen activator; TPA; T-PA; DKFZp686I03148.		
Solubility	It is recommended to reconstitute the lyophilized t-PA in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Each mg of t-PA contains 1.7 gr L-arginine, 0.5 gr phosphoric acid and 4 mg tween 80.		

Introduction

Tissue plasminogen activator (abbreviated PLAT or tPA) is a secreted serine proteasewhich converts the proenzymeplasminogento plasmin, a fibrinolyticenzyme. 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 migrationand tissue remodeling. Increased enzymatic activity causes hyperfibrinolysis, which manifests as excessive bleeding; decreased activity leads to hypofibrinolysiswhich can result in thrombosisor embolism.

Stability

Lyophilized t-PA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution tPA should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Background

Tissue Plasminogen Activator Human Recombinant produced in CHO cells is a single,

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glycosylated polypeptide chain containing 527 amino acids and having a molecular mass of 59008.71 Dalton. tPA is a serine protease enzyme that converts plasminogen to plasmin. The tPA is purified by proprietary chromatographic techniques.

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