Tenecteplase（研究用级别）

Research Grade Tenecteplase

货号：RB9T37016022

在您使用本产品前请认真阅读说明书，这对您顺利完成实验很有帮助。

产品编码 RB9T37016022	中文名称 Tenecteplase（研究用级别）
英文名称 Research Grade Tenecteplase	
形态 Liquid	纯度 >95% purity as determined by SDS-PAGE.
内毒素水平 Please contact the lab for this information.	
应用 ELISA, Functional assay, Research in vivo	
表达系统 Mammalian Cells	登录号 P00750
纯化方式 Purified by ion exchange chromatography.	浓度 1.8mg/ml
种属反应性 Human	靶标 t-plasminogen activator, tPA, t-PA, Reteplase, Tissue-type plasminogen activator, Alteplase, PLAT

背景信息

Tenecteplase, sold under the brand names Tnkase among others, is an enzyme used as a thrombolytic drug.Tenecteplase is a tissue plasminogen activator (tPA) produced by recombinant DNA technology using an established mammalian cell line (Chinese hamster ovary cells). Tenecteplase is a 527 amino acid glycoprotein developed by introducing the following modifications to the complementary DNA for natural human tPA: a substitution of threonine 103 with asparagine, and a substitution of asparagine 117 with glutamine, both within the kringle 1 domain, and a tetra-alanine substitution at amino acids 296–299 in the protease domain.Tenecteplase is a recombinant fibrin-specific plasminogen activator that is derived from native t-PA by modifications at three sites of the protein structure. It binds to the fibrin component of the thrombus (blood clot) and selectively converts thrombus-bound plasminogen to plasmin, which degrades the fibrin matrix of the thrombus. Tenecteplase has a higher fibrin specificity and greater resistance to inactivation by its endogenous inhibitor (PAI-1) compared to native t-PA.Tenecteplase was approved for medical use in the United States in June 2000.Medical usesTenecteplase is indicated to reduce the risk of death associated with acute ST elevation myocardial infarction.PharmacokineticsDistribution: approximates plasma volumeMetabolism: Primarily hepaticHalf-life elimination: Biphasic: Initial: 20–24 minutes; Terminal: 90–130 minutesExcretion: Clearance: Plasma: 99–119 mL/minuteGalleryResearchResearchers at Newcastle University in Australia say they have had a significant breakthrough in treating stroke patients using the commonly used drug. The findings were published in the New England Medical Journal. Though safety has been established through previous clinical trials, there is ongoing debate about whether this is an effective treatment for ischemic stroke, and significant ongoing discussion between emergency physicians, neurologists and pharmacists about whether this treatment should be used for that indication.The American Heart Association/American Stroke Association 2019 update to the 2018 guidelines for the Early Management of Acute Ischemic Stroke supports considering tenecteplase over alteplase in patients without contraindication to intravenous thrombolytics.References== Further reading ==

别名

Tnkase, Dp00031, TNK-tPA, Metalyse, 191588-94-0

产品描述

Tenecteplase (TNKase, DP00031) is a recombinant and site-directed mutant version of human tissue plasminogen activator (tPA, EC 3.4.21.68) and is a member of the serine protease family.

储存缓冲液

315mM Arginine, pH7.3, 173mM H3PO4, 0.043% Tween20.

稳定性和储存

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Store at 4° C for short-term storage (1-2 weeks). Store at -20° C for up to 12 months. For long-term storage, store at -80° C.

For research use only. Not suitable for clinical or therapeutic use.