

32-6929: TPA (311-562) Human

Alternative Name : Tissue-type plasminogen activator, EC 3.4.21.68, tPA, t-PA, t-plasminogen activator, TPA, T-PA, DKFZp686I03148, PLAT and tPA.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	TPA protein solution (0.5mg/ml) contains 50mM MES (pH 5.0), 5mM CaCl ₂ , 1mM DTT, 0.5M NaCl and 30% glycerol.
Storage condition :	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.
Amino Acid :	ADPIKGGLFA DIASHPWQAA IFAKHRRSPG ERFLCGGILI SSCWILSAAH CFQERFPPHH LTVILGRTYR VVPGEEEQKF EVEKYIVHKE FDDDTYDNDI ALLQLKSDSS RCAQESSVVR TVCLPPADLQ LPDWTECELS GYGKHEALSP FYSERLKEAH VRLYPSSRCT SQHLLNRTVT DNMLCAGDTR SGGPQANLHD ACQGDSSGGL VCLNDGRMTL VGIISWGLGC GQKDVPGVYT KVTNYLDWIR DNMRPHHHHH H.