



Recombinant Rat Tissue-type plasminogen activator (Plat)

Product Code	CSB-EP018120RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P19637
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	SYRATCRD EQTQTTYQQH QSWLRPMLRG NRVEYCRCNS GLAQCHSVPV RSCSEPRCFN GGTCQQALYF SDFVCQCPDG FVGKRCIDIT RATCFEGQGI TYRGTWSTAE NGAECINWNS SALSQKPYSR RRPNAIKLGL GNHNYCRNPD RDVKPWCYVF KAGKYTTEFC STPACPKGPT EDCYVGKGVY YRGTHSFTTS KASCLPWNSM ILIGKTYTAW RANSQALGLG RHNYCRNPDG DAKPWCHVMK DRKLTWEYCD MSPCSTCGLR QYKQPQFRIK GGLFTDITSH PWQAAIFVKN KRSPGERFLC GGVLISSCWV LSAAHCFVER FPPHHLKVVL GRTYRVVPGE EEQTFEIEKY IVHKEFDDDT YDNDIALLQL RSDSSQCAQE SSSVGTACL DPDVQLPDWT ECELSGYGKH EASSPFFSDR LKEAHVRLYP SSRCTSQHLLF NKTITSNMLC AGDTRTGGNQ DVHDACQGDS GGPLVCMIDK RMTLLGIISW GLGCGQKDVP GIYTKVTNYL NWIQDNMKQ
Source	E.coli
Target Names	Plat
Protein Names	Recommended name: Tissue-type plasminogen activator Short name= t-PA Short name= t-plasminogen activator Short name= tPA EC= 3.4.21.68 Cleaved into the following 2 chains: 1. Tissue-type plasminogen activator chain A
Expression Region	33-559
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This gene encodes tissue-type plasminogen activator, a secreted serine protease which converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. Tissue-type plasminogen activator is synthesized as a single chain which is cleaved by plasmin to a two chain disulfide linked protein. 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. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.