

## T-PA Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P701312
<b>Synonyms:</b>	Tissue-type plasminogen activator; t-PA; Plat
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	P11214 (S33-Q559)
<b>Gene ID:</b>	18791
<b>Molecular Weight:</b>	13-15 kDa & 30-34 kDa & 35-40 kDa

### PROPERTIES

#### AA Sequence

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S Y R A T C R D E P
T
Q C H S V P V R S C
K R C D I D T R A T
S L K P Y N A R R P
K Y T T E F C S T P
C L P W N S I V L M
P W C H V M K D R K
Y T D I T S H P W Q
A H C F L E R F P P
E E F D D D T Y D N
L Q L P D W T E C E
C T S Q H L F N K T
L V C M I N K Q M T
H D N M K Q

Q T T Y Q Q H Q S W
S E P R C F N G G T
C F E E Q G I T Y R
N A I K L G L G N H
A C P K G K S E D C
G K S Y T A W R T N
L T W E Y C D M S P
A A I F V K N K R S
N H L K V V L G R T
D I A L L Q L R S Q
L S G Y G K H E A S
V T N N M L C A G D
L T G I I S W G L G

L R P M L R S S R V
C Q Q A L Y F S D F
G T W S T A E S G A
N Y C R N P D R D L
Y V G K G V T Y R G
S Q A L G L G R H N
C S T C G L R Q Y K
P G E R F L C G G V
Y R V V P G E E E Q
S K Q C A Q E S S S
S P F F S D R L K E
T R S G G N Q D L H
C G Q K D V P G V Y

E Y C R C N S G L V
V C Q C P D G F V G
E C I N W N S S V L
K P W C Y V F K A G
T H S L T T S Q A S
Y C R N P D G D A R
R P Q F R I K G G L
L I S S C W V L S A
T F E I E K Y I V H
V G T A C L P D P N
A H V R L Y P S S R
D A C Q G D S G G P
T K V T N Y L D W I
  
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<b>Biological Activity</b>	Measured by its ability to cleave a peptide substrate, N-carbobenzyloxy-Gly-Gly-Arg-7-amido-4-methylcoumarin (Z-GGR-AMC). The specific activity is > 500 pmol/min/μg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping**

Room temperature in continental US; may vary elsewhere.

**DESCRIPTION****Background**

The T-PA protein functions by converting the inactive zymogen plasminogen into active plasmin through the hydrolysis of a single Arg-Val bond. This conversion is crucial for regulating plasmin-mediated proteolysis, which is involved in tissue remodeling, degradation, cell migration, and various physiological and pathological processes. Additionally, during oocyte activation, T-PA plays a role in the cortical granule reaction within the zona reaction, contributing to the prevention of polyspermy.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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