

Mouse tPA Protein

Cat. No. TPA-MM201

Description

Source	Recombinant Mouse tPA Protein is expressed from HEK293 with hFc tag at the N-terminus. It contains Ser33-Gln559, which consists of two chains: chain A (Ser36-Arg308) and chain B (Ile309-Gln559).
Accession	P11214
Molecular Weight	The protein has a predicted MW of 85.00 kDa. The protein is activated by thermolysin and cleaved to a 2-chain protease, it migrates to 35-40 kDa (Chain A) and 30-35 kDa (Chain B) based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

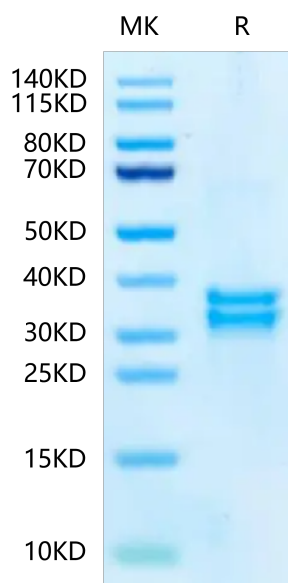
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Tissue plasminogen activator (tPA) is the predominant plasminogen activator present in the vascular and nervous systems. tPA is not only neuroprotective for postnatal primary cortical neurons, but also that the predominant route for enhancing cell survival is via an mTORdependent mechanism.

Assay Data

Bis-Tris PAGE



Mouse tPA on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

Bioactivity Data

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 > 200 pmol/min/ μg .