

Mouse tPA Protein

Cat. No. TPA-MM101

Description

Source	Recombinant Mouse tPA Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ser33-Gln559, which consists of two chains: chain A (Ser33-Arg308) and chain B (Ile309-Gln559).
Accession	P11214
Molecular Weight	The protein has a predicted MW of 60.57 kDa. It migrates to 13-15 kDa (chain A and chain B fragment), 30-34 kDa and 35-40 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

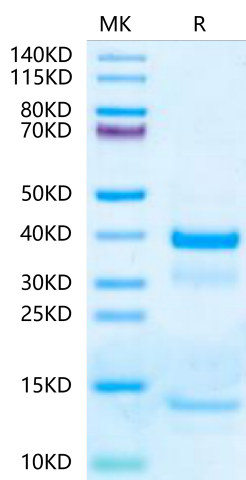
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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

Tris-Bis PAGE



Mouse tPA on Tris-Bis 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 > 400 pmol/min/µg.