

Human tPA Protein

Cat. No. TPA-HM10A



Description

Source	Recombinant Human tPA Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Ser36-Pro562, which consists of two chains: chain A (Ser36-Arg310) and chain B (Ile311-Pro562).
Accession	P00750-1
Molecular Weight	The protein has a predicted MW of 60.13 kDa. It migrates to 40-45 kDa and 35-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

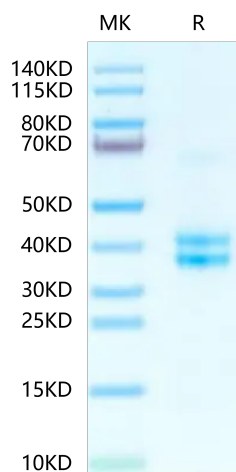
Formulation	Supplied as 0.22µm filtered solution in 20mM MES, 300mM NaCl, 200mM Arginine (pH 5.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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 mTOR-dependent mechanism.

Assay Data

Bis-Tris PAGE



Human 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-carbobenzoyloxy-Gly-Gly-Arg-7-amido-4-methylcoumarin (Z-GGR-AMC). The specific activity is > 200 pmol/min/µg.