



# Recombinant Mouse Urokinase-type plasminogen activator (Plau)

<b>Product Code</b>	CSB-EP018121MO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80
<b>Uniprot No.</b>	P06869
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>GSVLGAPDESNCGCQNGGVCVSYKYFSRIRRCSCPRKFQGEHCEIDASKTCY  HGNGDSYR  GKANTDTKGRPCLAWNAPAVLQKPYNAHRPDAISLGLGKHNYCRNPDNQKR  PWCYVQIGL  RQFVQECMVHDCSLSKKPSSSVDQQGFQCGQKALRPRFKIVGGEFTEVENQ  PWFAAIYQK  NKGGSPPSFKCGGSLISPCWVASAAHCFIQLPKKENYVVYLGQSKESSYNPG  EMKFEVEQ  LILHEYYREDSLAYHNDIALLKIRTSTGQCAQPSRSIQTICLPPRFTDAPFGSDC  EITGF  GKESESDYLYPKNLKMSVVKLVSHEQCMQPHYYGSEINYKMLCAADPEWKTD  SCKGDSGG  PLICNIEGRPTLSGIVSWGRGCAEKNKPGVYTRVSHFLDWIQSHIGEEKGLAF</p>
<b>Source</b>	E.coli
<b>Target Names</b>	Plau
<b>Protein Names</b>	Recommended name: Urokinase-type plasminogen activator Short name= U-plasminogen activator Short name= uPA EC= 3.4.21.73Cleaved into the following 3 chains: 1. Urokinase-type plasminogen activator long chain A 2. Urokinase-type
<b>Expression Region</b>	21-433
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a serine protease involved in degradation of the extracellular matrix and possibly tumor cell migration and proliferation. A specific polymorphism in this gene may be associated with late-onset Alzheimer s disease and also with decreased affinity for fibrin-binding. This protein converts plasminogen to plasmin by specific cleavage of an Arg-Val bond in plasminogen. Plasmin in turn cleaves this protein at a Lys-Ile bond to form a two-chain derivative in which a single disulfide bond connects the amino-terminal A-chain to the catalytically active, carboxy-terminal B-chain. This two-



chain derivative is also called HMW-uPA (high molecular weight uPA). HMW-uPA can be further processed into LMW-uPA (low molecular weight uPA) by cleavage of chain A into a short chain A (A1) and an amino-terminal fragment. LMW-uPA is proteolytically active but does not bind to the uPA receptor. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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**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.

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**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.