PLAU/uPA Protein, Human (411a.a, HEK293, His)

Cat. No.:	HY-P71050
Synonyms:	Urokinase-Type Plasminogen Activator; U-Plasminogen Activator; uPA; PLAU
Species:	Human
Source:	HEK293
Accession:	P00749 (S21-L431)
Gene ID:	5328
Molecular Weight:	45-55 kDa

PROPERTIES

AA Sequence	S N E L H Q V P S N C D C L N G G T C V S N K Y F S N I H W C N C P K K F G G Q H C E I D K S K T C Y E G N G H F Y R G K A S T D T M G R P C L P W N S A T V L Q Q T Y H A H R S D A L Q L G L G K H N Y C R N P D N R R R P W C Y V Q V G L K L L V Q E C M V H D C A D G K K P S S P P E E L K F Q C G Q K T L R P R F K I I G G E F T T I E N Q P W F A A I Y R R H R G G S V T Y V C G G S L I S P C W V I S A T H C F I D Y P K K E D Y I V Y L G R S R L N S N T Q G E M K F E V E N L I L H K D Y S A D T L A H H N D I A L L K I R S K E G R C A Q P S R T I Q T I C L P S M Y N D P Q F G T S C E I T G F G K E N S T D Y L Y P E Q L K M T V V K L I S H R E C Q Q P H Y Y G S E V T T K M L C A A D P Q W K T D S C Q G D S G G P L V C S L Q G R M T L T G I V S W G R G C A L K D K P G V Y T R V S H F L P W I R S H T K E E N G L A L
Biological Activity	Measured by its ability to cleave a peptide substrate, N-carbobenzyloxy-Gly-Gly-Arg-7-amido-4-methylcoumarin (Z-GGR-AMC). Read at excitation and emission wavelengths of 380 nm and 460 nm (top read). The specific activity is 1120.66 pmol/min/μg, as measured under the described conditions.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM HEPES, 2 mM $CaCl_2$, 10% Glycerol, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	uPA chain A, a key player in the plasminogen activation system, performs a critical role as it selectively cleaves the zymogen plasminogen to generate the enzymatically active form known as plasmin. This proteolytic activation is a pivotal step in fibrinolysis, where plasmin functions to degrade fibrin clots and contribute to tissue remodeling and repair. uPA chain A's precision in cleaving plasminogen underscores its significance in regulating the delicate balance of proteolytic activity, emphasizing its role as a key initiator in the cascade of events leading to fibrinolysis and other physiological processes involving extracellular matrix remodeling.

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

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