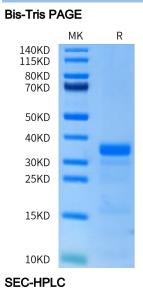
Human PLAU/uPA Protein (active form)

	A Protein (active form)
Cat. No. PLA-HM	1101
Description	
	Recombinant Human PLAU/uPA Protein (active form) is expressed from HEK293 with His tag at the C-Terminu
Source	It contains Ser21-Leu431, which consists of two chains: Long chain A (Ser21-Phe177) and chain B (Ile179- Leu431). The long chain A is further cleaved to yield a short chain A (Lys156-Phe177) and N-Terminus fragmen (Ser21-Lys155).
Accession	P00749-1
Molecular Weight	The protein has a predicted MW of 17.9 kDa (long chain A), 29.2 kDa (chain B) and 15.3 kDa (N-terminal fragment). The protein migrates to 30-38 kDa (chain B) and 17 kDa (N-terminal fragment) 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
	>95% as determined by HPLC
Formulation and S	itorage
Formulation	Lyophilized from 0.22 µm filtered solution in 1% HCOOH, 1 mM DTT (pH 3.0). 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 1% HCOOH, 1mM DTT (pH 3.0).
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Plasminogen activator, urokinase (uPA) is a secreted serine protease, cleaving the sequence Cys-Pro-Gly- Arg560-Val561-Val-Gly-Gly-Cys in plasminogen to form plasmin. Dysregulation of PLAU is often accompanied various cancers and PLAU inhibition could suppress tumor growth. Collectively, PLAU is necessary for tumor progression and can be a diagnostic and prognostic biomarker in HNSCC.

Assay Data



Human PLAU (activated by trypsin) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

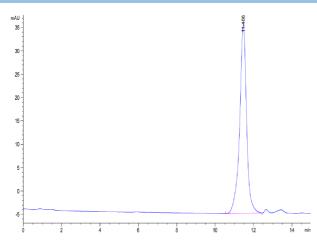
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Human PLAU/uPA Protein (active form)

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Assay Data





The purity of Human PLAU (activated by trypsin) is greater than 95% as determined by SEC-HPLC.

Human PLAU/uPA Protein (active form)

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Assay Data

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 >2000 pmol/min/µg (QC Test).

