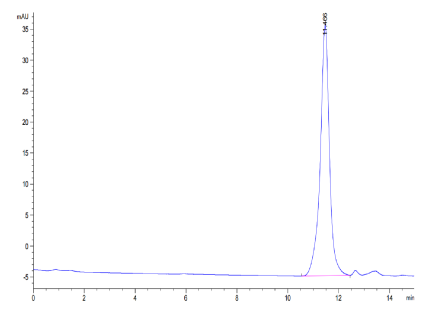
Bioactive HuPro®

PLAU (Human) Recombinant Protein

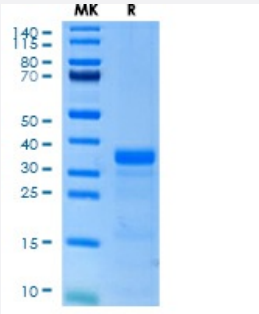
Catalog # P9799 Size 100 ug

Applications



SEC-HPLC

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



Tris-Bis PAGE

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

Specification

Product Description	Human PLAU (P00749-1, Ser21-Leu431) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	Ser21-Leu431
Host	Human
Theoretical MW (kDa)	47.5
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

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Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The specific activity is > 2000 pmol/min/ug
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human PLAU (activated by trypsin) is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human PLAU (activated by trypsin) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PLAU

Entrez GeneID	5328
Protein Accession#	P00749-1
Gene Name	PLAU
Gene Alias	ATF, UPA, URK, UROKINASE, u-PA
Gene Description	plasminogen activator, urokinase
Omim ID	104300 191840
Gene Ontology	Hyperlink

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Gene Summary	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. [provided by RefSeq
Other Designations	OTTHUMP00000019849|U-plasminogen activator|antagonist of uPA|plasminogen activator, urinary|urokinase plasminogen activator|urokinase-type plasminogen activator amino-terminal fragment

Pathway

- Complement and coagulation cascades

Disease

- Alveolar Bone Loss
- Alzheimer disease
- Arthritis
- Asthma
- Bacteremia
- Blood Platelet Disorders
- Bronchopulmonary Dysplasia
- Carcinoma
- Cardiovascular Diseases
- Chorioamnionitis
- Chronic Disease
- Cognition
- Colorectal Neoplasms

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- Diabetes Complications
- Diabetes Mellitus
- Edema
- Fetal Membranes
- Genetic Predisposition to Disease
- Gram-Negative Bacterial Infections
- Hypersensitivity
- Inflammation
- Insulin Resistance
- Kidney Calculi
- Kidney Failure
- Lung Neoplasms
- Metabolic Syndrome X
- Mitral Valve Prolapse
- Mouth Neoplasms
- Multiple Sclerosis
- Myocardial Infarction
- Neoplasms
- Neovascularization
- Obstetric Labor
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pneumoconiosis
- Polycystic Ovary Syndrome
- Pre-Eclampsia

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- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Recurrence
- Respiratory Distress Syndrome
- Small Cell Lung Carcinoma
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Urinary Calculi

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