

Bioactive

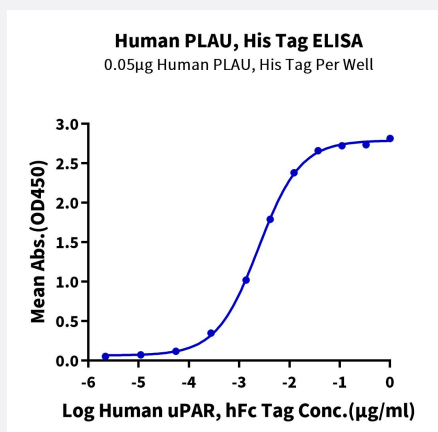
HuPro®

PLAU (Human) Recombinant Protein

Catalog # P9803

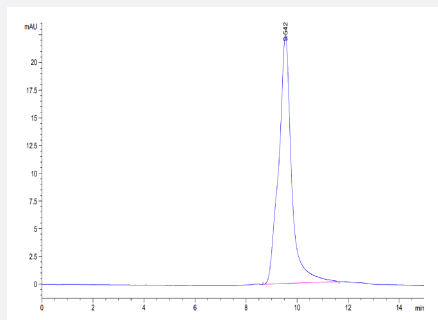
Size 100 ug

Applications



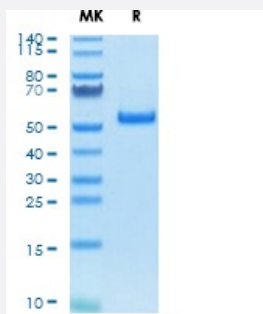
Enzyme-linked Immunoabsorbent Assay

Immobilized Human PLAU, His Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Human uPAR, hFc Tag with the EC50 of 2.4 ng/mL determined by ELISA.



SEC-HPLC

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



Tris-Bis PAGE

Human PLAU (pro form) 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
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 2.4 ng/mL, measured by ELISA at 0.5 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human PLAU (pro form) is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human PLAU (pro form) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA 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.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human PLAU, His Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Human uPAR, hFc Tag with the EC₅₀ of 2.4 ng/mL determined by ELISA.

- Functional Study

- SDS-PAGE

Gene Info — PLAUI

Entrez GeneID [5328](#)

Protein Accession# [P00749-1](#)

Gene Name PLAUI

Gene Alias ATF, UPA, URK, UROKINASE, u-PA

Gene Description plasminogen activator, urokinase

Omim ID [104300 191840](#)

Gene Ontology [Hyperlink](#)

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](#)
- [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](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Recurrence](#)
- [Respiratory Distress Syndrome](#)
- [Small Cell Lung Carcinoma](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)