

Datasheet for ABIN7275455
PLAU Protein (AA 21-431) (His tag)

5 Images

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Overview

Quantity:	100 µg
Target:	PLAU
Protein Characteristics:	AA 21-431
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLAU protein is labelled with His tag.

Product Details

Purpose:	Human PLAU/uPA Protein (active form)
Sequence:	Ser21-Leu431
Characteristics:	Recombinant Human PLAU/uPA Protein (active form) is expressed from HEK293 with His tag at the C-Terminus. It contains Ser21-Leu431, which consists of two chains: Long chain A (Ser21-Phe177) and chain B (Ile179-Leu 431). The long chain A is further cleaved to yield a short chain A (Lys156-Phe 177) and N-Terminus fragment (Ser21-Lys155).
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human PLAU, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human uPAR, hFc Tag with the EC50 of 10.3ng/ml determined by ELISA. The affinity constant of 5.87 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

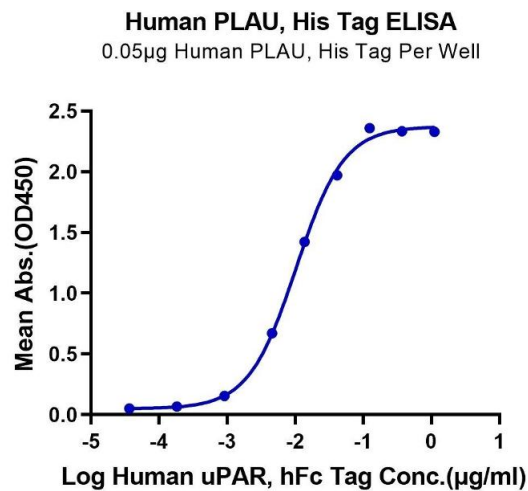
Target:	PLAU
Alternative Name:	PLAU (PLAU Products)
Background:	<p>Plasminogen activator, urokinase (uPA) is a secreted serine protease whose Dysregulation is often accompanied by various cancers. PLAU inhibition could suppress tumor growth.</p> <p>Collectively, PLAU is necessary for tumor progression and can be a diagnostic and prognostic biomarker in HNSCC.</p>
Molecular Weight:	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 Tris-Bis PAGE result.
Pathways:	Cellular Response to Molecule of Bacterial Origin , Carbohydrate Homeostasis , Autophagy , Smooth Muscle Cell Migration

Application Details

Restrictions:	For Research Use only
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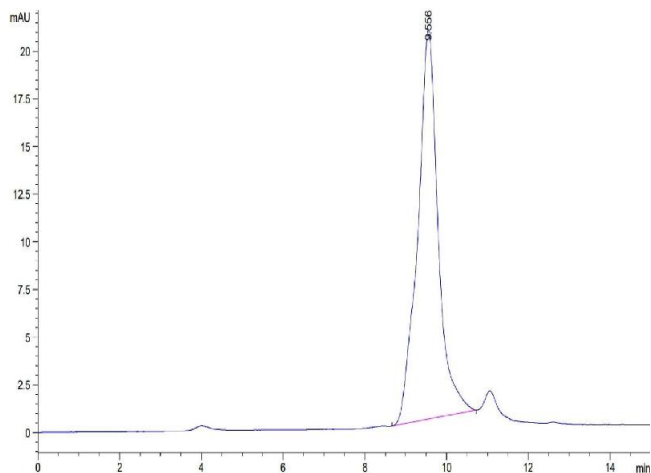
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in 1 % HCOOH, 1 mM DTT (pH 3.0).
Buffer:	Lyophilized from 0.22µm filtered solution in 1 % HCOOH, 1 mM DTT (pH 3.0). Normally 8 % trehalose is added as protectant before lyophilization.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



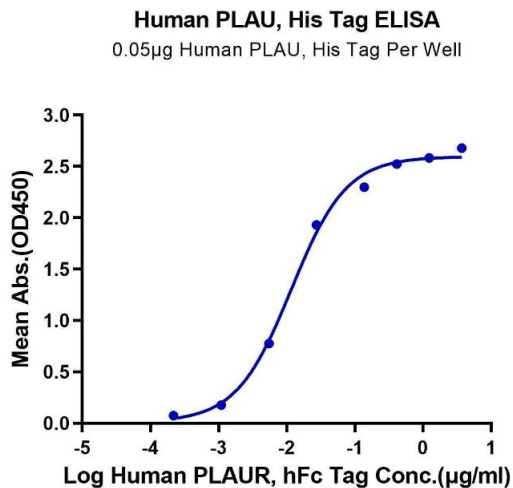
ELISA

Image 1. Immobilized Human PLAUI, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human uPAR, hFc Tag with the EC50 of 10.3 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human PLAUI/uPA (activated by trypsin) is greater than 95 % as determined by SEC-HPLC.



ELISA

Image 3. Immobilized Human PLAUI, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Human PLAUI, hFc Tag with the EC50 of 11.7 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7275455.