

Urokinase/uPA Recombinant Protein | PLAU recombinant protein

Urokinase/uPA Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257433

HOST
HEK293 Cells

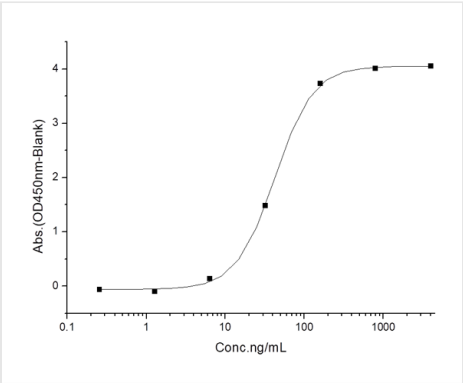
PRODUCT SYNONYMS

Urokinase/uPA; Urokinase/uPA Protein; Human; Recombinant (His Tag); Human Urokinase/PLAU Protein (His Tag); plasminogen activator; urokinase; ATF Protein; BDPLT5 Protein; QPD Protein; u-PA Protein; UPA Protein; URK Protein; PLAU recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>97 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	422aa
Sequence	Met1-Leu43 1
Species	Human
Tag	C-His
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser21
Protein Construction	JA DNA sequence encoding the human PLAU (NP_002649.1) (Met 1-Leu 431) with a C-terminal polyhistidine tag was expressed
Activity	Measured by its binding ability in a functional ELISA. Immobilized human uPA at 5ug/ml (100ul/well) can bind mouse PLAUR with a linear range of 1.6-40ng/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES



Application Data

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ADDITIONAL INFORMATION

Related Product Information for PLAUR recombinant protein

Plasminogen activator, urokinase, also known as PLAUR and uPA, is a serine protease which converts plasminogen to plasmin, a broad-spectrum protease active on extracellular matrix (ECM) components. It is involved in complement activation, cell migration, wound healing, and generation of localized extracellular proteolysis during tissue remodelling, pro-hormone conversion, carcinogenesis and neoplasia. Like many components of the blood coagulation, fibrinolytic and complement cascades, uPA has a modular structure, including three conserved domains: a growth factor-like domain (GFD, residues 1-49), a kringle domain (residues 50-131), linked by an interdomain linker or "connecting peptide" (CP, residues 132-158) to the serine protease domain (residues 159-411). uPA and its receptor (uPAR) have been implicated in a broad spectrum of pathophysiological processes, including fibrinolysis, proteolysis, inflammation, atherogenesis and plaque destabilization, all of which are involved in the pathogenesis of MI (myocardial infarction). The role of uPA is not only linked to its action as an enzyme. In fact, the mere binding of uPA on the cell surface also brings about two events that broaden the spectrum of its biological functions: (1) a conformational change of the receptor, which, in turn, affects its interaction with other proteins; (2) a signal transduction which modulates the expression of apoptosis-related genes. Besides its applications as a thrombolytic agent and as a prognostic marker for tumors, uPA may provide the basis for other therapies, as the structure of the receptor-binding domain of uPA has become a model for the design of anti-cancer molecules. Because of the causal involvement of uPA in cancer invasion and metastasis, the blockade of uPA interactions and activity with specific inhibitors is of interest for novel strategies in cancer therapy.

References

Crippa MP. (2007) Urokinase-type plasminogen activator. *Int J Biochem Cell Biol.* 39(4): 690-4. Kunamneni A, et al. (2008) Urokinase-a very popular cardiovascular agent. *Recent Pat Cardiovasc Drug Discov.* 3(1): 45-58. Vincenza Carriero M, et al. (2009) Structure, function and antagonists of urokinase-type plasminogen activator. *Front Biosci.* 14: 3782-94. Xu J, et al. (2010) Association of putative functional variants in the PLAUR gene and the PLAUR gene with myocardial infarction. *Clin Sci (Lond).* 119(8): 353-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505863
NCBI GeneID	5328
NCBI Accession #	NP_002649.1
NCBI GenBank Nucleotide #	NM_002658.3
Molecular Weight	46,908 Da
NCBI Official Full Name	urokinase-type plasminogen activator isoform 1 preproprotein
NCBI Official Synonym Full Names	plasminogen activator, urokinase
NCBI Official Symbol	PLAU
NCBI Official Synonym Symbols	ATF; QPD; UPA; URK; u-PA; BDPLT5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/urokinase/upa-recombinant-protein-hek293-cells/257433>