

Plasminogen Activator, Urokinase (uPA) Active Protein | uPA active protein

Active Plasminogen Activator, Urokinase (uPA)

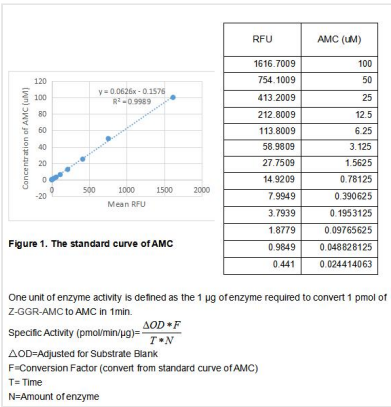
CATALOG # AAA161705	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Plasminogen Activator; Urokinase (uPA); Active Plasminogen Activator; Urokinase; uPA active protein (eukaryotic; 293F cell); Human; PLAU; ATF; URK; UK; UP-A; Abbokinase; Urokinase-Type Plasminogen Activator4; uPA active protein

PRODUCT SPECIFICATIONS

Host	293F cell
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Ser21~Leu4 31
Applicable Applications for uPA active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Eukaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	8.4
Research Area	Tumor immunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

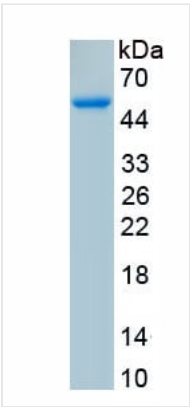


Bioactivity

Urokinase Plasminogen Activator (uPA), also known as u-plasminogen activator or urokinase, is a highly-specific serine protease from the peptidase S1 family that cleaves plasminogen to form plasmin making it a key player in the plasminogen activator (PA) system. Expression of uPA is minimal in normal cells but is increased several fold in tumor cells by extracellular stimuli elevated in cancer and corresponds to poor outcomes in several types of cancer. Therefore, uPA has been identified as an excellent target for therapeutic development through inhibition of protease activity or through inhibition of uPA-dependent signaling while in complex with uPA receptor (uPAR). The activity assay of uPA was measured by its ability to cleave a peptide substrate, N-carbobenzoyloxy-Gly-Gly-Arg-7-amido-4-methylcoumarin (Z-GGR-AMC). The reaction was performed in 50 mM Tris, 0.01% Tween-20, pH 8.5 (Assay Buffer), initiated by addition 50 µL of 0.4 µg/ml uPA (diluted by Assay Buffer) to 50 µL of 200 µM Substrate. Read at excitation and emission wavelengths of 380 nm and 460 nm (top read), respectively, in kinetic mode for 5 minutes. The specific activity of recombinant human uPA is >9600 pmol/min/ug.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for uPA active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56068043
NCBI GeneID	5328
UniProt Accession #	P00749; Q15844; Q16618; Q53XS3; Q5SWW9; Q969W6; B4DPZ2
Molecular Weight	48,507 Da
NCBI Official Full Name	urokinase plasminogen activator
NCBI Official Synonym Full Names	plasminogen activator, urokinase
NCBI Official Symbol	PLAU
NCBI Official Synonym Symbols	ATF; QPD; UPA; URK; u-PA; BDPLT5
NCBI Protein Information	urokinase-type plasminogen activator; U-plasminogen activator; plasminogen activator, urinary
UniProt Protein Name	Urokinase-type plasminogen activator
UniProt Gene Name	PLAU
UniProt Synonym Gene Names	U-plasminogen activator; uPA
UniProt Entry Name	UROK_HUMAN

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://www.aaabiotech.com/293f-active-protein/plasminogen-activator-urokinase-upa/161705>