

## uPAR Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P72433
<b>Synonyms:</b>	Urokinase plasminogen activator surface receptor; U-PAR; CD87; PLAUR; MO3
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q03405 (L23-R303)
<b>Gene ID:</b>	5329
<b>Molecular Weight:</b>	Approximately 52 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> L R C M Q C K T N G   D C R V E E C A L G   Q D L C R T T I V R   L W E E G E E L E L V E K S C T H S E K   T N R T L S Y R T G   L K I T S L T E V V   C G L D L C N Q G N S G R A V T Y S R S   R Y L E C I S C G S   S D M S C E R G R H   Q S L Q C R S P E E Q C L D V V T H W I   Q E G E E G R P K D   D R H L R G C G Y L   P G C P G S N G F H N N D T F H F L K C   C N T T K C N E G P   I L E L E N L P Q N   G R Q C Y S C K G N S T H G C S S E E T   F L I D C R G P M N   Q C L V A T G T H E   P K N Q S Y M V R G C A T A S M C Q H A   H L G D A F S M N H   I D V S C C T K S G   C N H P D L D V Q Y R </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM Tris-HCl, 8% Trehalose, 2% Dextran-70, 50 mM NaCl, 0.05% Tween80, pH 8.5 or PBS, pH7.4.
<b>Endotoxin Level</b>	<1 EU/ $\mu$ g, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	uPAR Protein functions as a receptor for urokinase plasminogen activator, actively participating in the localization and facilitation of plasmin formation. Additionally, it serves as a mediator of the proteolysis-independent signal transduction activation effects induced by U-PA. Subject to negative-feedback regulation by U-PA, uPAR Protein undergoes cleavage into
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an inactive form. Typically existing as a monomer, it interacts with various proteins, including MRC2, SRPX2 (via the UPAR/Ly6 domains), and FAP (seprase), with the latter interaction occurring at the cell surface of invadopodia membrane. Moreover, uPAR Protein engages in an interaction with SORL1, specifically through the N-terminal ectodomain, and this interaction has been associated with a decrease in PLAU internalization. Notably, the formation of a ternary complex composed of PLAU, PLAU (urokinase-type plasminogen activator), and SERPINE1 also involves an interaction with SORL1.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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