

## uPAR Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P700844
Synonyms:	U-PAR; uPAR; CD87; PLAUR; MO3; UPAR
Species:	Human
Source:	HEK293
Accession:	Q03405-1 (L23-G305)
Gene ID:	5329
Molecular Weight:	50-60 kDa

### PROPERTIES

<b>Biological Activity</b>	Immobilized Human uPAR, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Human PLAUR, His Tag with the EC <sub>50</sub> of 9.6ng/ml determined by ELISA.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<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>	<p>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 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 PLAUR internalization. Notably, the formation of a ternary complex composed of PLAUR, PLAU (urokinase-type plasminogen activator), and SERPINE1 also involves an interaction with SORL1.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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