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Recombinant Human uPAR/CD87 Protein

Catalog No.: RP00517 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	5329	Q03405

Tags
C-6×His

Synonyms
PLAUR; CD87; U-PAR; UPAR; URKR; plasminogen activator; urokinase receptor;CD87;U-PAR;UPAR;URKR

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.Contact us for customized product form or formulation.

Reconstitution
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Contact

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Background

The Urokinase Type Plasminogen Activator (uPA) receptor (uPAR) is a widely expressed receptor for urokinaseplasminogen activator (uPA) and pro-uPA. uPAR / CD87 is a highly glycosylated, 55-60kDa integral membraneprotein linked to the plasma membrane by a glycosylphosphatidylinositol (GPI) anchor. uPAR is expressed by T-cells, NK cells, monocytes, and neutrophils as well as non-hematopoietic cells that include vascular endothelialcells, fibroblasts, smooth muscle cells, keratinocytes, placental trophoblasts, hepatocytes, and a wide variety oftumor cells (including breast, colon, and prostate carcinoma, melanoma). It plays a critical role in theregulation of cell-surface plasminogen activation in physiological and pathological conditions, and it is alsoinvolved in cellular adhesion, the transmission of extracellular signals across the plasma membrane and thesubsequent regulation of gene expression. uPAR has been implicated in several biological processes includingangiogenesis, monocyte migration, cancer metastasis, trophoblast implantation, and wound healing. HumanuPAR is encoded as a 313 amino acid residue polypeptide, excluding a 22 residue signal peptide and shows 60-70% similarity with the murine uPAR amino acid sequence although binding of uPA to uPAR shows strongspecies specificity.

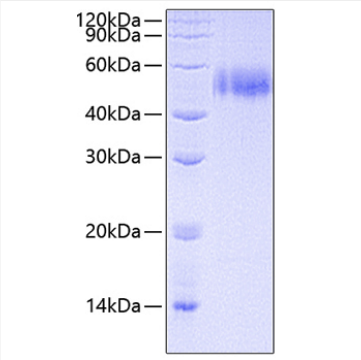
Basic Information

Description
Recombinant Human uPAR/CD87 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Leu23-Arg303) of human uPAR/CD87 (Accession #Q03405) fused with a 6×His tag at the C-terminus.

Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human uPAR at 5 μg/mL (100 μL/well) can bind Recombinant Human u-Plasminogen Activator (uPA)/Urokinase with a linear range of 0.3-20 ng/mL.

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human uPAR/CD87 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.