Data Sheet (Cat.No.TMPK-01175)

TargetMol

uPAR/PLAUR Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	U-PAR;UPAR;MO3;CD87;PLAUR
Protein Construction:	Leu23-Gly305
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q9GK78
Molecular Weight:	32.69 kDa (predicted). Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	1. Immobilized Cynomolgus uPAR, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human PLAU, His Tag with the EC50 of 13.8ng/ml determined by ELISA (QC Test). 2. Cynomolgus uPAR, His Tag immobilized on CM5 Chip can bind Cynomolgus PLAU, His Tag with an affinity constant of 0.033 nM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The receptor (u-PAR) for urokinase plasminogen activator (u-PA) is a three-domain protein, GPI-anchored to the cell surface, which focuses the enzymatic activity of u-PA, and allows the cell surface activation of plasminogen.

Regulation of the activity of u-PA is also mediated by u-PAR.

Reference

Blasi F. The urokinase receptor and cell migration. Semin Thromb Hemost. 1996;22(6):513-6. doi: 10.1055/s-2007-999053. PMID: 9122717.