Data Sheet (Cat.No.TMPK-00783)

TargetMol

PLAU/uPA Protein, Mouse, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	ATF;URK;Urokinase;PLAU;u-PA;UPA;QPD;BDPLT5
Protein Construction:	Gly21-Phe433
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P06869
Molecular Weight:	49.00 kDa (predicted). Due to enzyme lysis and glycosylation, the protein migrates to 30-35 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Mouse uPAR isoform 1, His Tag immobilized on CM5 Chip can bind Biotinylated Mouse PLAU, His-Avi Tag with an affinity constant of 0.19 μM 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

Plasminogen activator, urokinase (uPA) is a secreted serine protease whose Dysregulation is often accompanied by various cancers. PLAU inhibition could suppress tumor growth. Collectively, PLAU is necessary for tumor progression and can be a diagnostic and prognostic biomarker in HNSCC.

Reference

Chen G, et al. PLAU Promotes Cell Proliferation and Epithelial-Mesenchymal Transition in Head and Neck Squamous Cell Carcinoma. Front Genet. 2021 May 20;12:651882. doi: 10.3389/fgene.2021.651882. PMID: 34093649; PMCID: PMC8173099.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481