Data Sheet (Cat.No.TMPY-06943)

TargetMol

ASGR1 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms: CLEC4H1;HL-1;asialoglycoprotein receptor 1;ASGPR;ASGPR1

Protein Construction: Gln62-Leu291

Species: Human

Expression Host: HEK293 Cells

Accession: P07306-1

Molecular Weight: 29.30 kDa (Predicted); 35-50 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it.

Purity: > 95% as determined by Bis-Tris PAGE;
> 95% as determined by HPLC

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from 0.22 μm filtered solution in PBS, 200 mM L-Arginine (pH 7.4). Normally 8% trehalose is added as protectant 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

ASGR1 is a liver-specific surface marker that is exclusively expressed in liver and mediates internalization and lysosomal degradation of blood asialoglycoproteins.

Reference

Yang J,et al.(2006) Antisense oligonucleotides targeted against asialoglycoprotein receptor 1 block human hepatitis B virus replication. J Viral Hepat. 13(3): 158-65.
Li Y,et al.(2008) Targeted delivery of macromolecular drugs: asialoglycoprotein receptor (ASGPR) expression by selected hepatoma cell lines used in antiviral drug development. Curr Drug Deliv. 5(4): 299-302.

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