Data Sheet (Cat.No.TMPY-01114)

TargetMol

NPC2 Protein, Human, Recombinant (His)

General Information

Synonyms: HE1;Niemann-Pick disease, type C2;EDDM1

Protein Construction: Glu20-Leu151

Species: Human

Expression Host: HEK293 Cells

Accession: P61916-1

Molecular Weight: 15.67 kDa (Predicted); 21-24 kDa and 27-35 kDa (Due to glycosylation)

QC Testing

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

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

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

Formulation: Lyophilized from 0.22 μm filtered solution in PBS (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

The Niemann Pick type C (NPC) proteins, NPC1 and NPC2, are involved in the lysosomal storage disease, NPC disease. The formation of a NPC1¯NPC2 protein¯protein complex is believed to be necessary for the transfer of cholesterol and lipids out of the late endosomal (LE)/lysosomal (Lys) compartments. Mutations in either NPC1 or NPC2 can lead to an accumulation of cholesterol and lipids in the LE/Lys, the primary phenotype of the NPC disease.

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