Data Sheet (Cat.No.TMPY-01576)

TargetMol

Artemin Protein, Mouse, Recombinant (hFc)

General Information

Synonyms: artemin;neublastin

Protein Construction: Ala112-Gly224

Species: Mouse

Expression Host: HEK293 Cells

Accession: Q9Z0L2-1

Molecular Weight: 39.4 kDa (predicted); 65-80 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity: Immobilized Mouse ARTN, hFc Tag at 5 μg/ml (100 μl/well) on the plate. Dose response curve for Mouse GFRA3, His Tag with the EC50 of 54.7 ng/ml determined by ELISA

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

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

Formulation: Lyophilized from 0.22μm filtered solution in 50mM Glycine,150mM NaCl (pH 3.2). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 50mM Glycine,150mM NaCl (pH 3.2). 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

Artemin (ARTN) is a member of glial cell line-derived neurotrophic factor (GDNF) family of ligands, and its signaling is mediated via a multi-component receptor complex including the glycosylphosphatidylinositol-anchored GDNF family receptors a (GFRa1, GFRa3) and RET receptor tyrosine kinase. The major mechanism of ARTN action is via binding to a non-signaling co-receptor. The major function of ARTN is to drive the molecule to induce migration and axonal projection from sympathetic neurons.

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