

DAG1 Protein, Rabbit, Recombinant (His)

General Information

Synonyms: Dystroglycan 1;Dystrophin-associated glycoprotein 1;DAG1;Dystroglycan

Protein Construction: 30-653 aa

Species: Rabbit

Expression Host: E. coli

Accession: Q28685

Molecular Weight: 73.5 kDa (predicted)

AA Sequence: HWPSEPSEAVRDWENQLEASMHSVLSDLHEALPTVVGIPDGTAVVGRSFRVTIPTDLIGSSGEVIKVSTAGKEV
LPSWLHWD PQSHTLEGLPLDLDTKGVHYISVSA AQLDANGSHIPQTSSVFSIEVYPEDHSEPQSVRAASPD LGE
AAASACAAEEPVT VLT VILDADLT KMT PKQRIDLLHRMQSFSEVELHNMKLVVNNR LFDMSAFMAGPGN
AKKVVENGALLSWKLGCSLNQNSV PDIRGVEAPAREGTMSAQLGYPVVGWHIANKKPPLPKRIRRIHATPT
PVTAIGPPTTAIQEPPSRIVPTPTSPAIA PPTETMAPPVRDPVPGKPTVTRTRGAI IQTPTLGPIQPTRVSDAGTV
VSGQIRATVTIPGYVEPTAVATPPTTTT KKR VSTPKPATPSTDSSATTTTRRPTKKPRTPRPVPRVTTKAPITRLE
TASPTRIRTTTSGVPRGGEPNQRPELKNHIDRVD AWWGTYFEVKIPSDTFYDKEDTTT DKLKLT LKLRQQLV
GEKSWVQFNNSQLMYGLP DSSHVGKHEYFMHATDKGGLSAVD AFEIHVHKRPQGD KAPARFKAKFVGDP
APVVNDIHKKIALVKKLAF AFGDRNCSTVTLQ NITRG

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

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

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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 dystroglycan complex is involved in a number of processes including laminin and basement membrane assembly, sarcolemmal stability, cell survival, peripheral nerve myelination, nodal structure, cell migration, and epithelial polarization.; Extracellular peripheral glycoprotein that acts as a receptor for extracellular matrix proteins containing laminin-G domains. Receptor for laminin-2 (LAMA2) and agrin in peripheral nerve Schwann cells. Also acts as a receptor for laminin LAMA5.; Transmembrane protein that plays important roles in connecting the extracellular matrix to the cytoskeleton. Acts as a cell adhesion receptor in both muscle and non-muscle tissues. Receptor for both DMD and UTRN and, through these interactions, scaffolds axin to the cytoskeleton. Also functions in cell adhesion-mediated signaling and implicated in cell polarity.

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