

Dystroglycan 1 Recombinant Protein | DAG1 recombinant protein

Recombinant Human Dystroglycan 1 DAG1 Human

CATALOG #
AAA39089

PRODUCT SYNONYMS

Dystroglycan 1; Recombinant Human Dystroglycan 1 DAG1 Human; Dystroglycan; Dystrophin-associated glycoprotein 1; DAG1; A3a; DAG; AGRNR; 156DAG; MDDGC7; MDDGC9.; DAG1 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	DAG1 filtered (0.4 um) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4. Filtered White lyophilized (freeze-dried) powder.
Sequence	MKHHHHH HASHWP SEPSEAVRDW ENQLEASMHS VLSDLHEAVP TVVGIPDGTA VVGRSFRVTI PTDLIASSGD IIKVSAAGKE ALPSWLHWD S QSH TLEGLPL DTDKGVHYIS VSATRLGANG SHIPQTSSVF SIEVYPEDHS ELQSVRTASP DPGEVSSAC AADEPVT VLT VILDADLT KM TPKQRIDLLH RMRSFSEVEL HNMKLV P VVN NRLFDMSAFM AGPGNAKKVV ENGALLSWKL GCSLNQNSVP DIHGVEAPAR EGAMSAQLGY PVVGWHIANK KPPLPKRVRR .
Sequence Length	895
Source	Escherichia Coli.
Solubility	It is recommended to add 200 ul deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. DAG1 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Preparation and Storage	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

ADDITIONAL INFORMATION

Related Product Information for DAG1 recombinant protein	Description: DAG1 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain (a.a 30-312) containing 293 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 31.87kDa (calculated). Introduction: Dystroglycan 1 (DAG1) is a laminin binding component of the dystrophin-glycoprotein complex which provides a connection between the subsarcolemmal cytoskeleton and the extracellular matrix. The N-terminal domain of alpha-dystroglycan is secreted into the cerebrospinal fluid. The effect of DAG1 on the nervous system remains vague. The complete dystroglycan complex is expressed in a various tissues and has a role in processes such as laminin and basement membrane assembly, sarcolemmal stability, cell survival, peripheral nerve myelination, nodal structure, cell migration, and epithelial polarization. DAG1 is a candidate gene for the site of the mutation in autosomal recessive muscular dystrophies. The dramatic decrease of DAG1 in Duchenne muscular dystrophy leads to a loss of linkage between the sarcolemma and extracellular matrix, making muscle fibers more susceptible to necrosis.
Product Categories/Family for DAG1 recombinant protein	Recombinant & Natural Proteins ; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	294997284
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NCBI GeneID	1605
NCBI Accession #	NP_001159400.2
NCBI GenBank Nucleotide #	NM_001165928.3
UniProt Accession #	Q14118; Q969J9; A8K6M7
Molecular Weight	97,441 Da
NCBI Official Full Name	dystroglycan preproprotein
NCBI Official Synonym Full Names	dystroglycan 1 (dystrophin-associated glycoprotein 1)
NCBI Official Symbol	DAG1
NCBI Official Synonym Symbols	A3a; DAG; AGRNR; 156DAG; MDDGC7; MDDGC9
NCBI Protein Information	dystroglycan
UniProt Protein Name	Dystroglycan
UniProt Gene Name	DAG1
UniProt Synonym Gene Names	Alpha-DG; Beta-DG
UniProt Entry Name	DAG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/dag1-recombinant-protein/39089>