9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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DAG1 Human

Dystroglycan 1 Human Recombinant
RCP0610

Product Overview

Name	DAG1 Human
Description	
Dystroglycan 1 Human Recombinant	
Accession (Primary)	Q14118
Synonyms	
Dystroglycan, Dystrophin-associated glycoprotein 1, DAG1, A3a, DAG, AGRNR, 156DAG, MDDGC7, MDDGC9.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
DAG1 filtered (0.4 µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.	
Stability	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MKHHHHHHAS HWPSEPSEAV RDWENQLEAS MHSVLSDLHE AVPTVVGIPD GTAVVGRSFR VTIPTDLIAS SGDIIKVSAA GKEALPSWLH WDSQSHTLEG LPLDTDKGVH YISVSATRLG ANGSHIPQTS SVFSIEVYPE DHSELQSVRT ASPDPGEVVS SACAADEPVT VLTVILDADL TKMTPKQRID LLHRMRSFSE VELHNMKLVP VVNNRLFDMS AFMAGPGNAK KVVENGALLS WKLGCSLNQN SVPDIHGVEA PAREGAMSAQ LGYPVVGWHI ANKKPPLPKR VRR.

Solubility

It is recommended to add 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.

Precautions

DAG1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q14118)