Alpha-Dystroglycan N-Terminal Domain Human E.coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Dystrophin-associated glycoprotein 1, DAG1, alpha-DG-N

Cat. No.:
RD172318100 (0.1 mg)

Description

Total 293 AA. MW: 31.87 kDa (calculated). UniProtKB acc.no. Q14118 (His30-Arg312). N-terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

N-terminal domain of alpha-dystroglycan is secreted into the cerebrospinal fluid. Its effect on the nervous system remains unclear. The complete dystroglycan complex is expressed in a variety of tissues and plays 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.

Research topic

Neural tissue markers

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
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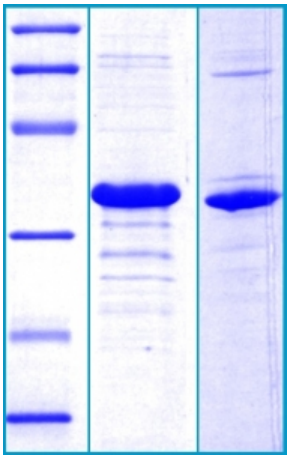
Source

E. coli

Purity

Purity as determined by densitometric image analysis: >90%

SDS-PAGE gel



14% SDS-PAGE separation of Human Dystroglycan
1. M.W. marker - 97, 66, 45, 31, 21, 14 kDa
2. reduced and heated sample, 2.5 µg/lane
3. non-reduced and non-heated sample, 25 µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.05 M phosphate buffer, 0.075 M NaCl, pH 7.4

Reconstitution

Add 200ul of deionized water to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.

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