

Human NFASC / Neurofascin Protein (His Tag)

Catalog Number: 15694-H08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

NF; NRCAML

Protein Construction:

A DNA sequence encoding the human NFASC (O94856-12) (Met1-Gln939) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ile 25

Molecular Mass:

The recombinant human NFASC comprises 926 amino acids and has a predicted molecular mass of 104.4 kDa. The apparent molecular mass of the protein is approximately 114-119 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

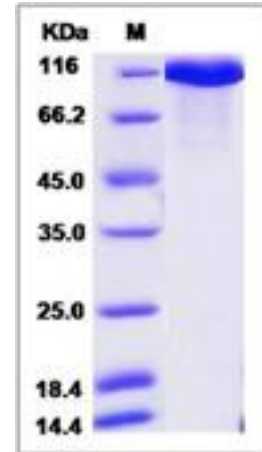
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

NFASC, also known as neurofascin, belongs to the immunoglobulin superfamily, L1/neurofascin/NgCAM family. It contains 5 fibronectin type-III domains and 6 Ig-like C2-type (immunoglobulin-like) domains. NFASC functions in neurite outgrowth, neurite fasciculation, and organization of the axon initial segment (AIS) and nodes of Ranvier on axons during early development. Both the AIS and nodes of Ranvier contain high densities of voltage-gated Na⁺ (Nav) channels which are clustered by interactions with cytoskeletal and scaffolding proteins including this protein, gliomedin, ankyrin 3 (ankyrin-G), and betaIV spectrin. NFASC links the AIS extracellular matrix to the intracellular cytoskeleton.

References

- 1.Volkmer H. et al., 1992, J Cell Biol. 118 (1): 149-61.
- 2.Burmeister M. et al., 1996, Mamm Genome. 7 (7): 558-9.
- 3.Ango F. et al., 2004, Cell. 119 (2): 257-72.

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