

Recombinant Human NFASC Protein (Met1-Gln939), HlgG1 Fc-tagged, Biotinylated

Cat. No. NFASC-621H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NFASC Protein (NP_001005388.2) (Met1-Gln939) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of human IgG1 at the C-terminus. The purified protein was biotinylated in vitro.
Species	Human
Source	HEK293
ProteinLength	Met1-Gln939
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.
Predicted N Terminal	Ile 25
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and

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	0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human NFASC consists of 1156 amino acids and predicts a molecular mass of 130 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Conjugation	Biotin

GENE INFORMATION

Gene Name	NFASC neurofascin [Homo sapiens]
Official Symbol	NFASC

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Synonyms	NFASC; neurofascin; FLJ46866; KIAA0756; NF; NRCAML; neurofascin homolog; DKFZp686P2250;
Gene ID	23114
mRNA Refseq	NM_001005388
Protein Refseq	NP_001005388
MIM	609145
UniProt ID	O94856

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