

# 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<sup>+</sup> (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.
<b>Molecular Mass</b>	The recombinant human NFASC consists of 1156 amino acids and predicts a molecular mass of 130 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 90 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
<b>Storage</b>	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.
<b>Reconstitution</b>	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.
<b>Shipping</b>	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.
<b>Conjugation</b>	Biotin

## GENE INFORMATION

<b>Gene Name</b>	NFASC neurofascin [ Homo sapiens ]
<b>Official Symbol</b>	NFASC

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<b>Synonyms</b>	NFASC; neurofascin; FLJ46866; KIAA0756; NF; NRCAML; neurofascin homolog; DKFZp686P2250;
<b>Gene ID</b>	<a href="#">23114</a>
<b>mRNA Refseq</b>	<a href="#">NM_001005388</a>
<b>Protein Refseq</b>	<a href="#">NP_001005388</a>
<b>MIM</b>	<a href="#">609145</a>
<b>UniProt ID</b>	<a href="#">O94856</a>

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