Data Sheet (Cat.No.TMPY-03797)

TargetMol

Neurofascin Protein, Human, Recombinant (His)

General Information

Synonyms:	neurofascin;NF;NRCAML
Protein Construction:	A DNA sequence encoding the human NFASC (O94856-12) (Met1-Gln939) was expressed with a C-terminal polyhistidine tag. Predicted N terminal: Ile 25
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O94856-12
Molecular Weight:	104.4 kDa (predicted); 114-119 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 150 mM NaCl, 10% Glycerol, 5% trehalose, 0.02%Tween 20, pH8.5. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

NFASC (Neurofascin, also known as NRCAML, NEDCPMD, and NF) is a Protein Coding gene. 13 alternatively spliced human isoforms have been reported. NFASC 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. The protein functions in neurite outgrowth, neurite fasciculation, and organization of the axon initial segment (AIS) and nodes

of Ranvier on axons during early development. NFASC links the AIS extracellular matrix to the intracellular cytoskeleton. It is broadly expressed in the brain, kidney, and other tissues. Diseases associated with NFASC include Neurodevelopmental Disorder With Central And Peripheral Motor Dysfunction and Demyelinating Polyneuropathy.

Reference

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481