Human Nav1.6 Protein, Tag Free

Catalog # NA6-H5113

Synonyms

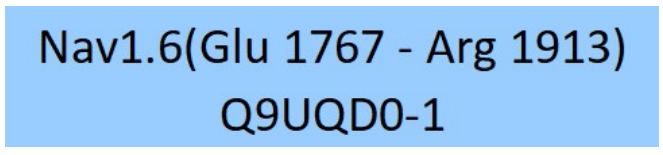
Nav1.6

Source

Human Nav1.6 Protein, Tag Free (NA6-H5113) is expressed from *E. coli* cells. It contains AA Glu 1767 - Arg 1913 (Accession # Q9UQD0-1).

Predicted N-terminus: Met

Molecular Characterization



This protein carries no "tag".

The protein has a calculated MW of 17.1 kDa. The protein migrates as 15-17 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH8.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

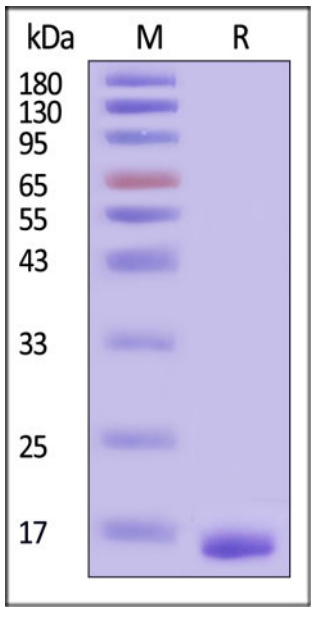
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



Human Nav1.6 Protein, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

Background

Nav 1.6, encoded by the SCN8A gene, is a voltage-gated sodium channel highly concentrated at the axon initial segment and nodes of Ranvier. It plays a pivotal role in initiating action potentials and generating persistent currents. Gain-of-function mutations drive severe developmental epileptic encephalopathies, making Nav 1.6 a premier target for subtype-selective inhibitors. This product is focusing on C-terminus Truncation.