

Recombinant Human Neuritin/NRN1 Protein (Baculovirus, His Tag)

Catalog No. PKSH030790

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms dJ380B8.2;MGC44811;NRN

Species Human

Expression Host Baculovirus-Insect Cells

Sequence Met 1-Asn 115

AccessionQ9NPD7Calculated Molecular Weight11 kDaObserved molecular weight11 kDaTagC-His

Bioactivity Not validated for activity

Properties

Purity > 85 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per ug of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol

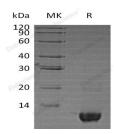
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 85 % as determined by reducing SDS-PAGE.

Background

Neuritin 1 (NRN1) is a member of neuritin family. Neuritin is a glycosylphosphatidylinositol- anchored protein induced by neural activity. It is expressed in postmitotic-differentiating neurons of the developing nervous system and a population

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com

 $Email: \underline{tech support@elabscience.com}$



Elabscience®

Elabscience Bionovation Inc.

A Reliable Research Partner in Life Science and Medicine

of small-diameter neurons in the dorsal root ganglia and was anterogradely and retrogradely transported. Neuritin message is induced by neuronal activity and by the activity-regulated neurotrophins BDNF; nerve growth factor (NGF) and NT-3. Purified recombinant neuritin promotes neurite outgrowth and arborization in primary embryonic hippocampal and cortical cultures. Thus; neuritin is considered as a downstream effector of activity-induced neurite outgrowth. In clinical; neuritin levels in diabetes were reduced in both dorsal root ganglia and sciatic nerve of rats; and these deficits were reversed in vivo by treatment with NGF. This manipulation of neuritin levels in diabetes may provide a potential target for the therapeutic intervention in the management of neuropathy.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

Web: www.elabscience.com