

NEGR1 recombinant protein

Recombinant Human NEGR1 Protein (His tag)

CATALOG #
AAA22093

HOST
Human Cells

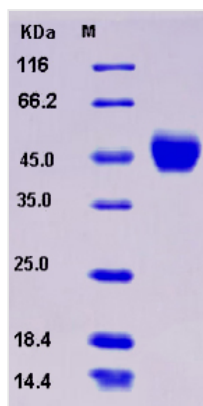
PRODUCT SYNONYMS

NEGR1; Recombinant Human NEGR1 Protein (His tag); UNQ2433; DMML2433; IGLON4; KILON; MGC46680; Ntra; NEGR1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 95 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol, 0.01% tween-80.
Sequence	Met1-Gly32 4
Tag	C-His
Expression Host	HEK293 Cells
Endotoxin	< 1.0 EU per ug as determined by the LAL method
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water(400ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized proteins are stable when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C. Aliquots of reconstituted samples are stable at < -20°C. This product is provided as lyophilized powder which is shipped at 4°C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for NEGR1 recombinant protein	Background: Neuronal Growth Regulator 1, NEGR1, also known as neurotractin, or KILON, which belongs to the immunoglobulin superfamily, IgLON family. This GPI-linked cell surface glycoprotein NEGR1 is composed of three Ig-like domains and belongs to the IgLON subgroup of neural IgSF members. It is expressed in two isoforms with apparent molecular masses of 50 and 37 kD, termed L-form and S-form, respectively. NEGR1/Neurotractin participates in the regulation of neurite outgrowth in the developing brain, and is expressed on neurites of primary hippocampal neurons. Neurotractin/KILON is a trans-neural growth-promoting factor for outgrowing axons following hippocampal denervation. KILON (kindred of IgLON) and opioid-binding cell adhesion molecule belong to the IgLON subgroup of immunoglobulin superfamily together with the limbic system-associated membrane protein and neurotrimin. The alteration of modulatory function of KILON/NEGR1 for the number of dendritic synapses concomitant with changes in its localization and detergent solubility during neuronal culture development. In addition to its reported role in the brain, NEGR1 is also expressed in subcutaneous adipose tissue and acts as a central 'hub' in an obesity-related transcript network.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66346706
NCBI GeneID	257194
NCBI Accession #	NP_776169.2
NCBI GenBank Nucleotide #	NM_173808.2
UniProt Accession #	Q7Z3B1; Q5VT21; Q6UY06; Q8N440; Q8NAQ3
Molecular Weight	Molecular Mass: 32.9 kDa AP Molecular Mass: 45-48 kDa
NCBI Official Full Name	neuronal growth regulator 1
NCBI Official Synonym Full Names	neuronal growth regulator 1
NCBI Official Symbol	NEGR1
NCBI Official Synonym Symbols	Ntra; KILON; IGLON4; DMML2433
NCBI Protein Information	neuronal growth regulator 1
UniProt Protein Name	Neuronal growth regulator 1
UniProt Gene Name	NEGR1
UniProt Synonym Gene Names	IGLON4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.