

Recombinant Human Neuregulin-1/NRG1-?1 Protein (EGF Domain, Fc Tag)



Catalog Number:PKSH031068

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

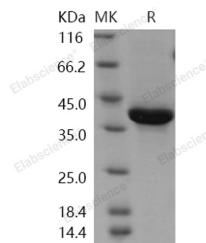
Description

Synonyms	Pro-neuregulin-1;Neuregulin-1 beta 1;NRG1-beta 1;HRG1-beta 1;EGF;NRG1;GGF;HGL;HRGA;NDF;SMDF;
Species	Human
Expression Host	HEK293 Cells
Sequence	Thr 176-Lys 246
Accession	Q02297-6
Calculated Molecular Weight	36.7 kDa
Observed molecular weight	38 kDa
Tag	N-hFc
Bioactivity	1. Immobilized Rhesus ErbB3 at 2 μ g/mL (100 μ L/well) can bind human NRG1 (isoform Beta1), The EC50 of human NRG1 (isoform Beta1) is 0.58 μ g/mL. 2. Immobilized human ErbB3 at 2 μ g/mL (100 μ L/well) can bind human NRG1 (isoform Beta1), The EC50 of human NRG1 (isoform Beta1) is 0.43 μ g/mL.

Properties

Purity	> 86 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g 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 PBS, pH 7.4 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



> 86 % as determined by reducing SDS-PAGE.

Background

Neuregulin 1 or NRG1 is one of four proteins in the neuregulin family that act on the EGFR family of receptors. This growth factor was originally identified as a 44-kD glycoprotein that interacts with the NEU / ERBB2 receptor tyrosine kinase to increase its phosphorylation on tyrosine residues. NRG1 is a trophic factor that has been implicated in neural

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development; neurotransmission; and synaptic plasticity. NRG1 has multiple isoforms that are generated by usage of different promoters and alternative splicing of a single gene. Neuregulin 1 (NRG1) is essential for the development and function of multiple organ systems; and its dysregulation has been linked to diseases such as cancer and schizophrenia. NRG1 is a schizophrenia candidate gene and plays an important role in brain development and neural function. Schizophrenia is a complex disorder; with etiology likely due to epistasis.

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