

RPES8457

Product Information

Product SKU:	RPES8457	Expression Host:	Mammalian	Size:	20µg
Tag:	C-His	Reactivity:	Mouse	Accession:	Q6DR98

Additional Information

Calculated MW:	6.6 kDa	Observed MW:	50 kDa
Sequence:	Ser177-Gln237		

Protein Information

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 development, neurotransmission, and synaptic plasticity. NRG1 has multiple isoforms that are generated by the 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.

Synonyms: Acetylcholine receptor-inducing activity, Acetylcholine receptor-inducing activity, CHICK, homolog of, ARIA, Breast cancer cell differentiation factor p45, GGF, GGF2, Glial growth factor, Heregulin, heregulin, alpha (45kD, ERBB2 p185-activator), HGL, HRG, HRG1, HRGA, MST131, NDF, Neu differentiation factor, Neuregulin 1, neuregulin 1 type IV beta 1a, neuregulin 1 type IV beta 3, Neuregulin-1, NRG 1, nrg1, NRG1-IT2, NRG1_HUMAN

Endotoxin: < 1.0 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity:	> 90% as determined by reducing SDS-PAGE.
Bio-Activity:	Not validated for activity
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.