

For Research Use Only

Recombinant Human NRG4 protein (rFc Tag)



Catalog Number: Eg3693

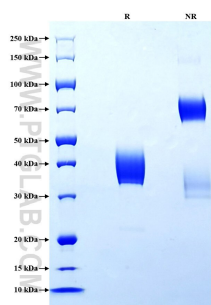
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Human NRG4 protein Pro2-Phe62 (Accession# Q8WWG1) with a rabbit IgG Fc tag at the C-terminus. GeneID: 145957 Accession: Q8WWG1 Predicted Molecular Mass: 33.0 kDa SDS-PAGE: 33-45 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	Neuregulin 4 (Nrg4), a member of the epidermal growth factor (EGF) family of extracellular ligands, is expressed in multiple organs with the highest expression levels in brown adipose tissue. Neuregulin 4 is a secreted adipokine recently identified as playing an important role in modulating systemic energy metabolism and in the development of metabolic disorders in rodent and human obesity, including type 2 diabetes and non-alcoholic fatty liver disease (NAFLD). Nrg4 attenuates hepatic lipogenic signaling and preserves glucose and lipid homeostasis in obesity.		
References	1.Chen Z, et al. (2017) Mol. Metab. 6, 863-872. 2.Archilla-Ortega A, et al. (2021) Int. J. Mol. Sci. 22,12960. 3.Comas F, et al. (2019) Front. Physiol. 10, 39. 4.Gwag T, et al. (2024) JHEP Rep. 6(4):101019.		
Synonyms	NRG4, HRG4, neuregulin 4, Neuregulin-4, NRG 4		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human NRG4 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.