

Datasheet for ABIN6964402

Neuregulin 1 Protein (NRG1) (Fc Tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Neuregulin 1 (NRG1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neuregulin 1 protein is labelled with Fc Tag.
Application:	ELISA

Product Details

Purpose:	Recombinant human NRG1 Protein with C-terminal Human Fc tag
Specificity:	NRG1 (Ser20-Arg242) hFc (Glu99-Ala330)
Characteristics:	Extracellular Domain Protein
Purification:	affinity purification
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	Neuregulin 1 (NRG1)
Alternative Name:	NRG1 (NRG1 Products)
Background:	Synonymes: ARIA, GGF, GGF2, HGL, HRG, HRG1, HRGA, MST131, MSTP131, NDF, NRG1-IT2,

Target Details

SMDF

Description: The protein encoded by this gene is a membrane glycoprotein that mediates cell-cell signaling and plays a critical role in the growth and development of multiple organ systems. An extraordinary variety of different isoforms are produced from this gene through alternative promoter usage and splicing. These isoforms are expressed in a tissue-specific manner and differ significantly in their structure, and are classified as types I, II, III, IV, V and VI. Dysregulation of this gene has been linked to diseases such as cancer, schizophrenia, and bipolar disorder (BPD).

Molecular Weight:	predicted molecular mass of 50.3 kDa after removal of the signal peptide. The apparent molecular mass of NRG1-hFc is 55-70 kDa due to glycosylation.
Gene ID:	3084
UniProt:	Q02297
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Muscle Cell Differentiation

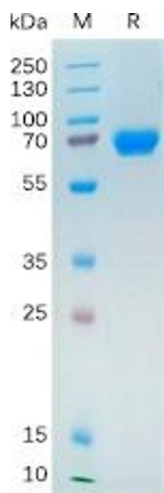
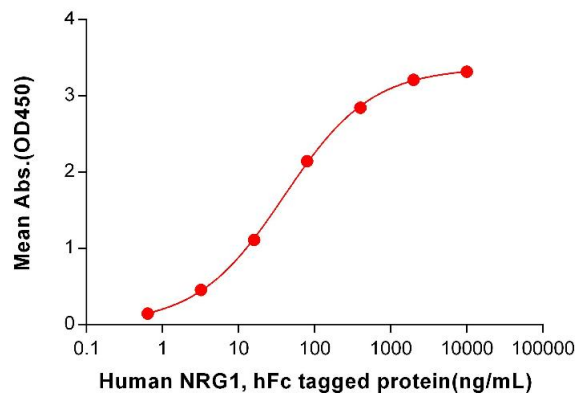
Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with deionized water
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Preservative:	Without preservative
Storage:	-20 °C, -80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months

Human NRG1, hFc tagged protein ELISA
0.5 µg of Human Her3, His tagged protein per well



ELISA

Image 1. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human HER3, His tagged protein (ABIN6961140) can bind Human NRG1, hFc tagged protein(ABIN6964402) in a linear range of 3.2-400 ng/mL.

SDS-PAGE

Image 2. Human NRG1 Protein, hFc Tag on SDS-PAGE under reducing condition.