Datasheet for ABIN6700299

Neuregulin 1 Protein (NRG1)

1 Image

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Overview

Quantity:	50 µg
Target:	Neuregulin 1 (NRG1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Neuregulin 1-beta Recombinant Protein
Purification:	Neuregulin 1-beta purity was determined to be greater than 95% as determined by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the ability to stimulate proliferation of MC-7 cells under serum free conditions and is typically less than 0.3 ng/mL.

Target Details

Target:	Neuregulin 1 (NRG1)
Alternative Name:	NRG1 (NRG1 Products)
Background:	Synonyms: Acetylcholine receptor-inducing activity (ARIA), Breast cancer cell differentiation factor p45, Glial growth factor, Heregulin, Neu differentiation factor, NGR beta 1, heregulin,

Target Details

	HRG1 beta, Sensory and motor neuron-derived factor Background: Neuregulin 1-beta (NRG1) is one of many isoforms of NRG that contains a soluble EGF-like domain. Alpha and beta varients are distinguished by difference in length at the C terminus. The EGF-like domain signals through receptors ErbB2, ErbB3, and ErbB4 to act as a growth factor. NRG isoforms are particularly important for nervous system and cardiovasucular development. Recombinant human NRG1-beta is a non-glycosylated protein, containing 66 amino acids, with a molecular weight of 7.6 kDa.
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:	Other: User Optimized Application_Note: Neuregulin 1-beta Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Neuregulin 1-beta in immunological assays.
Restrictions:	For Research Use only

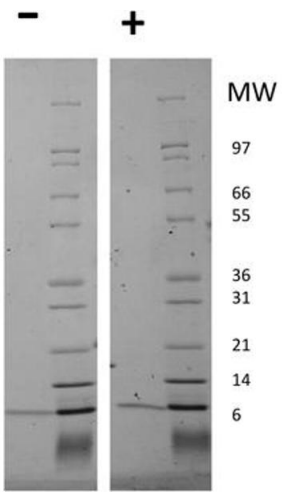
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 50µL
Concentration:	0.1 mg/mL
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing

Handling

	at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Neuregulin 1-beta Recombinant Protein SDS-PAGE of Human Neuregulin 1-beta Recombinant Protein. Lane 1: 1 µg Human NRG1-beta in non-reducing conditions . Lane 2: Molecular weight marker. Lane 3: 1 µg Human NRG1-beta in reducing conditions (+). Lane 4: Molecular weight marker. Human NRG1-beta has a predicted MW of 7.6 kDa.