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## Product Datasheet

### Human Neuregulin-1 protein, His tag (active), Unconjugated GTX00417-PRO

Artikelname	Human Neuregulin-1 protein, His tag (active), Unconjugated
Artikelnummer	GTX00417-PRO
Hersteller Artikelnummer	GTX00417-pro
Alternativnummer	GTX00417-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Human
Konjugation	Unconjugated
NCBI	<a href="#">3084</a>
UniProt	<a href="#">Q02297</a>
Puffer	Reconstitute with 20mM Tris (pH8.0) and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris (pH8.0), 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Glu20~His242 (NP_001153467.1)

Anwendungsbeschreibung

NRG1 (neuregulin-1) is a membrane glycoprotein that belongs to the neuregulin family and act on the EGFR family of receptors. It mediates cell-cell signaling and plays a critical role in the growth and development of multiple organ systems. It is reported that by binding to HER3 receptor, NRG1 mediates downstream signaling pathways, leading to multiple effects including growth, proliferation, decreased apoptosis, cellular migration and angiogenesis. Thus, proliferation assay of NRG1 was conducted using MCF-7 cells. Briefly, MCF-7 cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of NRG1. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). 10  $\mu$ l of CCK-8 solution was added to each well of the plate, the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37C. The dose-effect curve of NRG1 showed it significantly promoted cell proliferation of MCF-7 cells, and the ED50 for this effect is typically 5.240 to 9.112 ng/ml.