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Product Datasheet

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

Article Name	Human Neuregulin-1 protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00417-PRO
Supplier Catalog Number	GTX00417-pro
Alternative Catalog Number	GTX00417-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	3084
UniProt	Q02297
Buffer	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
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Glu20~His242 (NP_001153467.1)

Application Notes	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 μl 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.
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