# Product Data Sheet

Product Name: NRG1-beta 1 Protein, Human
Cat. No.: GC26535

## Product Data

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|---|---|---|---|
| Purity | ≥ 95% as determined by reducing SDS-PAGE | Source | E. coli |
| Phycical Appearance | Lyophilized powder | Shipping Condition | Room temperature in continental US; may vary elsewhere. |
| Synonyms | rHuHeregulin-1 β1; ARIA; HRG; NRG1; Neuregulin-1 | | |
| Amino Acid Sequence | SHLVKCAEKEKTFCVNGGECFMVKDLSNPSRYLCKCPNEFTGDRCQNYVMASFYKHLGIEFMEAE | | |
| Solubility | It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). | | |
| Formulation | | | |

## Introduction

NRG-1 Protein, Human belongs to a family of structurally-related polypeptide growth factors derived from alternatively spliced genes, induces Fn14 expression in MCF7 cells.

## Biological Activity

Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The $ED_{50}$ this effect is ≤ 2.158 ng/mL, corresponding to a specific activity is ≥ $4.6339\times10^5$ units/mg.

## Background

NRG-1 protein, belonging to the structurally related peptide growth factor family of Human, originates from alternative splicing genes and induces Fn14 expression in MCF7 cells.

***Caution: Product has not been fully validated for medical applications. For research use only.***
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