Certificate of Analysis

Product Name: NRG1-beta 1 Protein, Human
Cat. No.: GC26535
Batch No.: 2

Product Data

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 ≥ 4.6339×10^5 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.