Datasheet for ABIN2115486

NRG1-beta 1 Protein (AA 176-246)

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Overview

Quantity:	50 µg
Target:	NRG1-beta 1
Protein Characteristics:	AA 176-246
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Pro-Neuregulin-1/NRG1-β1/HRG1-β1 (Thr176-Lys246)
Sequence:	TSHLVKCAEK EKTFCVNGGE CFMVKDLSNP SRYLCKCPNE FTGDRCQNYV MASFYKHLGI EFMEAEELYQ K
Characteristics:	Recombinant Human Pro-neuregulin-1 is produced by our E. coli expression system. The target protein is expressed with sequence (Thr176-Lys246) of Human NRG1.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	NRG1-beta 1
Abstract:	NRG1-beta 1 Products

Target Details

Background:	Neuregulin-1 (heregulin-1,NRG1) is a member of neuregulin family, which is comprised of four genes that encode a large number of secreted or membrane-bound isoforms. All family members share an EGF-like domain that interacts with the ErbB family of tyrosine kinase receptors. NRG1 isoforms can be classified into type I, type II and type III isoforms. NRG1 directs ligand for ERBB3 and ERBB4 tyrosine kinase receptors, concomitantly recruits ERBB1 and ERBB2 coreceptors, resulting in ligand-stimulated tyrosine phosphorylation and activation of the ERBB receptors. NRG proteins show distinct spatial and temporal expression patterns and play important roles during development of both the nervous system and the heart. Synonyms: Pro-neuregulin-1,Neuregulin-1 beta 1,NRG1-beta 1,HRG1-beta 1, EGF,NRG1, GGF, HGL, HRGA, NDF, SMDF,
Molecular Weight:	8.2 kDa

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.