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Datasheet for ABIN2468517 Heregulin beta 1 Protein

Overview

Quantity:	0.01 mg
Target:	Heregulin beta 1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	SHLVKCAEKE KTFCVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRQCQNYVM ASFYKHLGIE FMEAE
Characteristics:	The ED50 was determined by the dose - dependent stimulation of the proliferation of human MCF - 7 cells is < 0.5 ng/mL, corresponding to a specific activity of > 2 x 10 ⁶ units/mg.
Purity:	< 98 % by SDS-PAGE gel and HPLC analyses.
Endotoxin Level:	Endotoxin level is less than 0.1 ng per µg (1 EU/µg).

Target Details

Target:	Heregulin beta 1
Abstract:	Heregulin beta 1 Products
Background:	Neuregulin/Heregulin is a family of structurally related polypeptide growth factors derived from alternatively spliced genes (NRG1, NRG2, NRG3 and NRG4). To date, there are over 14 soluble and transmembrane proteins derived from the NRG1 gene. Proteolytic processing of the

Target Details

extracellular domain of the transmembrane NRG1 isoforms release soluble growth factors. HRG1-beta1 contains an Ig domain and an EGF-like domain that is necessary for direct binding to receptor tyrosine kinases erb3 and erb4. This binding induces erb3 and erb4 heterodimerization with erb2, stimulating intrinsic kinase activity, which leads to tyrosine phosphorylation. Although HRG1-beta1 biological effects is still unclear, it has been found to promote motility and invasiveness of breast cancer cells which may also involve up-regulation of expression and function of the autocrine motility-promoting factor (AMF). Recombinant human Heregulin-beta1 (HRG1-beta1) is a 7.5 kDa polypeptide consisting of only the EGF domain of heregulin-beta1 (65 amino acid residues).

Gene ID: 3084

NCBI Accession: [NP_001153468](#)

OMIM: 236461846

UniProt: [Q02297](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Handling Advice: As with any protein, exposing Heregulin-B1 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Storage: -20 °C

Storage Comment: The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted Heregulin-B1 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.

Expiry Date: 24 months