

# Recombinant human HRG beta 1 protein ab187226

1 Image

### Description

<b>Product name</b>	Recombinant human HRG beta 1 protein	
<b>Biological activity</b>	The activity of HRG beta 1 is determined by the ability to stimulate proliferation of MC7 cells under serum free conditions and is typically less than 0.3 ng/mL.	
<b>Purity</b>	> 95 % SDS-PAGE. The purity of ab187226 is determined by reducing and non-reducing SDS-PAGE.	
<b>Endotoxin level</b>	<=1.000 Eu/µg	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<b><u>Q02297-6</u></b>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	MSHLVKCAEK EKTFCVNGGE CFMVKDLSNP SRYLCKCPNE FTGDRQCQNYV MASFYKHLGI EFMEAE	
<b>Predicted molecular weight</b>	8 kDa	
<b>Amino acids</b>	177 to 241	
<b>Additional sequence information</b>	The protein sequence corresponds to isoform 6 of human HRG beta 1 protein.	

### Specifications

Our **Abpromise guarantee** covers the use of **ab187226** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Lyophilized

### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C long term. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

## Reconstitution

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

## General Info

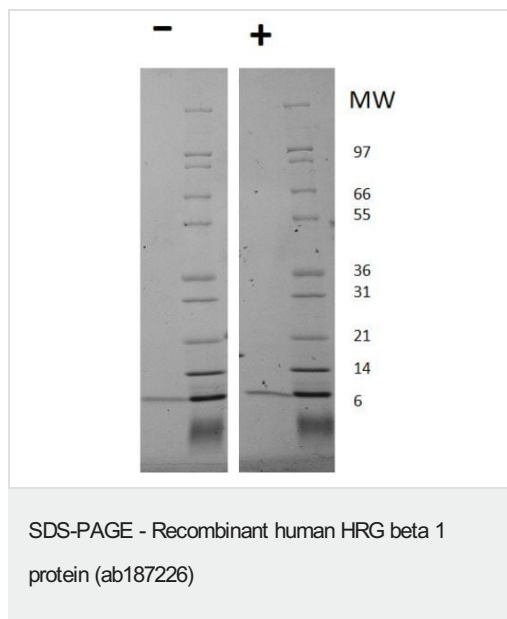
### Relevance

HRG beta 1 is an isoform from the Neuregulin/Heregulin family of structurally related polypeptide growth factors which are 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. The receptors for all NRG1 isoforms are the ERBB family of tyrosine kinase transmembrane receptors. Through interaction with ERBB receptors, NRG1 isoforms induce the growth and differentiation of epithelial, neuronal, glial, and other types of cells. HRG1- $\beta$ 1 contains an Ig domain and an EGF-like domain that is necessary for direct binding to receptor tyrosine kinases erb3 and erb4. Although HRG1- $\beta$ 1 biological effects are 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).

### Cellular localization

Secreted

## Images



SDS PAGE analysis of ab187226 under non-reducing (-) and reducing (+) conditions. Stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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