

## Product datasheet for TP726871

### Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant Human Pro-Neuregulin-1/HRG1-1 (Ser2-Lys246)
<b>Species:</b>	Human
<b>Expression cDNA Clone or AA Sequence:</b>	Ser2-Lys246
<b>Buffer:</b>	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
<b>Note:</b>	Recombinant Human Neuregulin-1 beta is produced by our E.coli expression system and the target gene encoding Ser2-Lys246 is expressed.
<b>Storage:</b>	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.
<b>Stability:</b>	12 months from date of despatch
<b>Synonyms:</b>	Pro-neuregulin-1;Neuregulin-1 beta 1;NRG1-beta 1;HRG1-beta 1; EGF;NRG1; GGF; HGL; HRGA; NDF; SMDF
<b>Summary:</b>	Pro-neuregulin-1,Neuregulin-1 beta 1 is a single-pass type I membrane protein and belongs to the neuregulin family .It contains 1 EGF-like domain and 1 Ig-like C2-type (immunoglobulin-like) domain. Direct ligand for ERBB3 and ERBB4 tyrosine kinase receptors. The protein concomitantly recruits ERBB1 and ERBB2 coreceptors, resulting in ligand-stimulated tyrosine phosphorylation and activation of the ERBB receptors. The multiple isoforms perform diverse functions such as inducing growth and differentiation of epithelial, glial, neuronal, and skeletal muscle cells; inducing expression of acetylcholine receptor in synaptic vesicles during the formation of the neuromuscular junction; stimulating lobuloalveolar budding and milk production in the mammary gland and inducing differentiation of mammary tumor cells; stimulating Schwann cell proliferation; implication in the development of the myocardium such as trabeculation of the developing heart. Isoform 10 may play a role in motor and sensory neuron development.



[View online »](#)