**Proteins** 



## **Product** Data Sheet

## HER4 Protein, Rat (HEK293, His)

Cat. No.: HY-P73037

Synonyms: Receptor tyrosine-protein kinase erbB-4; 4ICD; E4ICD; s80HER4; ERBB4; HER4

Species: Rat Source: HEK293

Accession: Q62956 (Q26-P651)

Gene ID: 59323 Molecular Weight: 75-95 kDa

## **PROPERTIES**

A Sequence  QSVCAGTENK LSSLSDLEQQ YRALRKYYEN CEVVMGNLE! TSIEHNRDLS FLRSIREVTG YVLVALNQFR YLPLENLRII RGTKLYEDRY ALAIIFLNYRK DGNFGLQELG LKNLTEILNG GVYVDQNKFL CYADTIHWQD IVRNPWPSNM TLVSTIGSSG CGRCHKSCTG RCWGPTENHC QTLTRTVCAE QCDGRCYGPY VSDCCHRECA GGCSGPKDTD CFACMNFNDS GACVTQCPQT FVYNPTTFQL EHNFNAKYTY GAFCVKKCPH NFVDSSSCV RACPSSKMEV EENGIKMCKP CTDICPKACD GIGTGSLMSA QTVDSSNIDK FINCTKINGN LIFLVTGIHG DPNAIDAID PEKLNVFRTV REITGFLNIQ TWPPNNMTDFS VFSNLVTIGG RVLYSGLSLL ILKQQGITSL QFQSLKEISA GNIYITDNSN LCYYHTINWT TLFSTVNQRI VIRDNRRAEN CTAEGMVCNH LCSNDGCWGP GPDQCLSCRR FSRKKICIES CNLYDGEFRE FENGSICVEC DSQCEKMEDG LLTCHGPGPD NCTKCSHFKD GPNCVEKCPD VLQGANSFIF KVADQDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARTP  Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCF®7 human breast cancer cells. The ED 30 for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRG1®beta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level  *It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).  Storage & Stability  Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is					
TSIEHNRDLS FLRSIREVTG YVLVALNQFR YLPLENLRII RGTKLYEDRY ALAIFLNYRK DGNFGLQELG LKNLTEILNG GVYVDQNKFL CYADTIHWQD IVRNPSNM TLVSTIGSSG CGRCHKSCTG RCWGPTENHC QTLTRTVCAE QCDGRCYGPY VSDCCHRECA GGCSGPKDTD CFACMNFNDS GACVTQCPQT FVYNPTTFQL EHNFNAKYTY GAFCVKKCPH NFVVDSSSCV RACPSSKMEV EENGIKMCKP CTDICPKACD GIGTGSLMSA QTVDSSNIDK FINCTKINGN LIFLVTGIHG DPYNAIDAID PEKLNVFRTV REITGFLNIQ TWPPNMTDFS VFSNLVTIGG RVLYSGLSLL ILKQQGITSL QFQSLKEISA GNIYITDNSN LCYYHTINWT TLFSTVNQRI VIRDNRRAEN CTAEGMVCNH LCSNDGCWGP GPDQCLSCRR FSRGKICIES CNLYDGEFRE FENGSICVEC DSQCEKMEDG LLTCHGPGPD NCTKCSHFKD GPNCVEKCPD VLQGANSFIF KYADQDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARTP  Biological Activity Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCFØ7 human breast cancer cells. The ED 50 for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRG1\(\text{\text{Bbeta1}}\), corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level  It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH20. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	AA Sequence		1 6 6 1 6 5 1 5 6 6	V D A I D I/ V V E N	CEVVMCNIEI
RGTKLYEDRY ALAIFLNYRK DGNFGLQELG LKNLTEILNG GYYVDQNKFL CYADTIHWQD IVRNPWPSNM TLVSTIGSSG CGRCHKSCTG RCWGPTENHC QTLTRTVCAE QCDGRCYGPY VSDCCHRECA GGCSGPKDTD CFACMNFNDS GACVTQCPQT FVYNPTTFQL EHNFNAKYTY GAFCVKKCPH NFVVDSSSCV RACPSSKMEV EENGIKMCKP CTDICPKACD GIGTGSLMSA QTVDSSNIDK FINCTKINGN LIFLVTGIHG DPYNAIDAID PEKLNVFRTV REITGFLNIQ TWPPNMTDFS VFSNLVTIGG RVLYSGLSLL ILKQQGITSL QFQSLKEISA GNIYITDNSN LCYYHTINWT TLFSTVNQRI VIRDNRRAEN CTAEGMVCNH LCSNDGCWGP GPDQCLSCRR FSRGKICIES CNLYDGETRE FENGSICVEC DSQCEKMEDG LLTCHGPGPD NCTKCSHFKD GPNCVEKCPD VLQGANSFIF KYADQDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARTP  Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCFØT human breast cancer cells. The ED 50 for this effect is 3.464 μg/mL in the presence of 10 ng/mL. Recombinant Human NRG1Øbeta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.  Endotoxin Level  It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).					
G V Y V D Q N K F L C Y A D T I H W Q D I V R N P W P S N M T L V S T I G S S G C G R C H K S C T G R C W G P T E N H C Q T L T R T V C A E Q C D G R C Y G P Y V S D C C H R E C A G C S G P K D T D C F A C M N F N D S G A C V T Q C P Q T F V Y N P T T F Q L E H N F N A K Y T Y G A F C V K K C P H N F V V D S S S C V R A C P S S K M E V E E N G I K M C K P C T D I C P K A C D G I G T G S L M S A Q T V D S S N I D K F I N C T K I N G N L I F L V T G I H G D P Y N A I D A I D P E K L N V F R T V R E I T G F L N I Q T W P P N M T D F S V F S N L V T I G G R V L Y S G L S L I L K Q Q G I T S L Q F Q S L K E I S A G N I Y I T D N S N L C Y Y H T I N W T T L F S T V N Q R I V I R D N R R A E N C T A E G M V C N H L C S N D G C W G P G P D Q C L S C R F S R G K I C I E S C N L Y D G E F R E F E N G S I C V E C D S Q C E K M E D G L L T C H G P G P D N C T K C S H F K D G P N C V E K C P D V L Q G A N S F I F K Y A D Q D R E C H P C H P N C T Q G C N G P T S H D C I Y Y P W T G H S T L P Q H A R T P   Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on M C F W T human breast cancer cells. The ED S of or this effect is 3.464 µ g/m L in the presence of 10 n g/m L. Recombinant Human N R G I W beta 1, corresponding to a specific activity is 288.6836 units/m g.  Appearance  Lyophilized powder  Formulation  Lyophilized from a 0.2 µ m filtered solution of P B S, p H 7.4.  Endotoxin Level  *1 Eu/µg, determined by L A L method.  Reconsititution  It is not recommended to reconstitute to a concentration less than 100 µ g/m L in dd H 20. For long term storage it is recommended to add a carrier protein (0.1% B S A, 5% H S A, 10% F B S or 5% T rehalose).				_	
CGRCHKSCTG RCWGPTENHC QTLTRTVCAE QCDGRCYGPY VSDCCHRECA GGCSGPKDTD CFACMNFNDS GACVTQCPQT FVYNPTTFQL EHNFNAKYTY GAFCVKKCPH NFVDSSSCV RACPSSKMEV EENGIKMCKP CTDICPKACD GIGTGSLMSA QTVDSSNIDK FINCTKINGN LIFLVTGIHG DPYNAIDAID PEKLNVFRTV REITGFLNIQ TWPPNMTDFS VFSNLVTIGG RVLYSGLSLL ILKQQGITSL QFQSLKEISA GNIYITDNSN LCYYHTINWT TLFSTVNQRI VIRDNRRAEN CTAEGMVCNH LCSNDGCWGP GPDQCLSCRR FSRGKICIES CNLYDGEFRE FENGSICVEC DSQCEKMEDG LLTCHGPGPD NCTKCSHFKD GPNCVEKCPD VLQGANSFIF KYADQDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARTP   Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCFØT human breast cancer cells. The ED 50 for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRGIØbeta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level  1 tis not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				_	
VSDCCHRECA   GGCSGPKDTD   CFACMNFNDS   GACVTQCPQT		•			
F V Y N P T T F Q L E H N F N A K Y T Y G A F C V K K C P H N F V V D S S S C V R A C P S S K M E V E E N G I K M C K P C T D I C P K A C D G I G T G S L M S A Q T V D S S N I D K F I N C T K I N G N L I F L V T G I H G D P Y N A I D A I D P E K L N V F R T V R E I T G F L N I Q R V L Y S G L S L L I L K Q Q G I T S L Q F Q S L K E I S A G N I Y I T D N S N L C Y Y H T I N W T T L F S T V N Q R I V I R D N R R A E N C T A E G M V C N H L C S N D G C W G P G P D Q C L S C R F S R G K I C I E S C N L Y D G E F R F E N G S I C V E C D S Q C E K M E D G L L T C H G P G P D N C T K C S H F K D G P N C V E K C P D V L Q G A N S F I F K Y A D Q D R E C H P C H P N C T Q G C N G P T S H D C I Y Y P W T G H S T L P Q H A R T P   Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCF 10 human breast cancer cells. The ED 50 for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRG 10 beta 1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized powder  Formulation  Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level  It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				_	
RACPSSKMEV EENGIKMCKP CTDICPKACD GIGTGSLMSA QTVDSSNIDK FINCTKINGN LIFLVTGIHG DPYNAIDAID PEKLNVFRTV REITGFLNIQ TWPPNMTDFS VFSNLVTIGG RVLYSGLSLL ILKQQGITSL QFQSLKEISA GNIYITDNSN LCYYHTINWT TLFSTVNQRI VIRDNRRAEN CTAEGMVCNH LCSNDGCWGP GPDQCLSCRR FSRGKICIES CNLYDGEFRE FENGSICVEC DSQCEKMEDG LLTCHGPGPD NCTKCSHFKD GPNCVEKCPD VLQGANSFIF KYADQDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARTP  Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCFN7 human breast cancer cells. The ED 50 for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRGINDeta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized powder  Formulation  Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level  It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).					• •
QTVDSSNIDK   FINCTKINGN   LIFLVTGIHG   DPYNAIDAID		•			
PEKLNVFRTV REITGFLNIQ TWPPNMTDFS VFSNLVTIGG RVLYSGLSLL ILKQQGITSL QFQSLKEISA GNIYITDNSN LCYYHTINWT TLFSTVNQRI VIRDNRRAEN CTAEGMVCNH LCSNDGCWGP GPDQCLSCRR FSRGKICIES CNLYDGEFRE FENGSICVEC DSQCEKMEDG LLTCHGPGPD NCTKCSHFKD GPNCVEKCPD VLQGANSFIF KYADQDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARTP  Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCF®7 human breast cancer cells. The ED 50 for this effect is 3.464 μg/mL in the presence of 10 ng/mL. Recombinant Human NRGI®beta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized powder  Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.  Endotoxin Level  It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).			EENGIKMCKP	CTDICPKACD	GIGTGSLMSA
R V L Y S G L S L L I L K Q Q G I T S L Q F Q S L K E I S A G N I Y I T D N S N L C Y Y H T I N W T T L F S T V N Q R I V I R D N R R A E N C T A E G M V C N H L C S N D G C W G P G P D Q C L S C R R F S R G K I C I E S C N L Y D G E F R E F E N G S I C V E C D S Q C E K M E D G L L T C H G P G P D N C T K C S H F K D G P N C V E K C P D V L Q G A N S F I F K Y A D Q D R E C H P C H P N C T Q G C N G P T S H D C I Y Y P W T G H S T L P Q H A R T P  Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCF 10 T human breast cancer cells. The ED 50 for this effect is 3.464 µg/m L in the presence of 10 ng/m L. Recombinant Human NRG 110 beta 1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized powder  Formulation  Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level  It is not recommended to reconstitute to a concentration less than 100 µg/m L in ddH 20. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).		QTVDSSNIDK		LIFLVTGIHG	DPYNAIDAID
LCYYHTINWT TLFSTVNQRI VIRDNRRAEN CTAEGMVCNH LCSNDGCWGP GPDQCLSCRR FSRGKICIES CNLYDGEFRE FENGSICVEC DSQCEKMEDG LLTCHGPGPD NCTKCSHFKD GPNCVEKCPD VLQGANSFIF KYADQDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARTP  Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCFØ7 human breast cancer cells. The ED 50 for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRGIØbeta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized powder  Formulation  Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level  Alt is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).		PEKLNVFRTV	•		VFSNLVTIGG
LCSNDGCWGP GPDQCLSCRR FSRGKICIES CNLYDGEFRE FENGSICVEC DSQCEKMEDG LLTCHGPGPD NCTKCSHFKD GPNCVEKCPD VLQGANSFIF KYADQDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARTP  Biological Activity Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCFØ7 human breast cancer cells. The ED 50 for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRG1Øbeta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance Lyophilized powder  Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level <1 EU/µg, determined by LAL method.  Reconsititution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).		RVLYSGLSLL	ILKQQGITSL	QFQSLKEISA	GNIYITDNSN
FENGSICVEC DSQCEKMEDG LLTCHGPGPD NCTKCSHFKD GPNCVEKCPD VLQGANSFIF KYADQDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHARTP  Biological Activity Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCFM7 human breast cancer cells. The ED 50 for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRG1Mbeta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance Lyophilized powder  Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level <1 EU/µg, determined by LAL method.  Reconsititution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).		LCYYHTINWT	TLFSTVNQRI	VIRDNRRAEN	CTAEGMVCNH
G P N C V E K C P D V L Q G A N S F I F K Y A D Q D R E C H P C H P N C T Q G C N G P T S H D C I Y Y P W T G H S T L P Q H A R T P  Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCF M 7 human breast cancer cells. The ED 50 for this effect is 3.464 μg/mL in the presence of 10 ng/mL. Recombinant Human NRG1 M beta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized powder  Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.  Endotoxin Level  Al EU/μg, determined by LAL method.  Reconstitution  It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).		LCSNDGCWGP	GPDQCLSCRR	FSRGKICIES	CNLYDGEFRE
Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCF⊠7 human breast cancer cells. The ED 50 for this effect is 3.464 μg/mL in the presence of 10 ng/mL. Recombinant Human NRG1⊠beta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized powder  Formulation  Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.  Endotoxin Level  Al EU/μg, determined by LAL method.  It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).		FENGSICVEC	DSQCEKMEDG	LLTCHGPGPD	NCTKCSHFKD
Biological Activity  Measured by its ability to inhibit the biological activity of Neuregulin-1-beta 1 on MCF⊠7 human breast cancer cells. The ED  50 for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRG1⊠beta1, corresponding to a specific activity is 288.6836 units/mg.  Appearance  Lyophilized powder  Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  Endotoxin Level  41 EU/µg, determined by LAL method.  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).		GPNCVEKCPD	VLQGANSFIF	KYADQDRECH	PCHPNCTQGC
So for this effect is 3.464 μg/mL in the presence of 10 ng/mL. Recombinant Human NRG1⊠beta1, corresponding to a specific activity is 288.6836 units/mg.  Lyophilized powder  Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.  Endotoxin Level <1 EU/μg, determined by LAL method.  Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).		NGPTSHDCIY	YPWTGHSTLP	QHARTP	
So for this effect is 3.464 μg/mL in the presence of 10 ng/mL. Recombinant Human NRG1⊠beta1, corresponding to a specific activity is 288.6836 units/mg.  Lyophilized powder  Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.  Endotoxin Level <1 EU/μg, determined by LAL method.  Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).					
So for this effect is 3.464 μg/mL in the presence of 10 ng/mL. Recombinant Human NRG1⊠beta1, corresponding to a specific activity is 288.6836 units/mg.  Lyophilized powder  Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.  Endotoxin Level <1 EU/μg, determined by LAL method.  Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	Dielegieel Asticite	Manager al les ita alcilitates		f N	ACCENT burners burner to a second allowers.
activity is 288.6836 units/mg.  Appearance  Lyophilized powder  Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.  Endotoxin Level  <1 EU/μg, determined by LAL method.  Reconstitution  It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	Biological Activity			_	
Appearance       Lyophilized powder         Formulation       Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.         Endotoxin Level       <1 EU/μg, determined by LAL method.         Reconsititution       It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).			-	g/mc. Recombinant numan	NRGIMBETAL, corresponding to a specific
Formulation       Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.         Endotoxin Level       <1 EU/μg, determined by LAL method.         Reconsititution       It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).		activity is 288.6836 utilits/i	ng.		
Formulation       Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.         Endotoxin Level       <1 EU/μg, determined by LAL method.         Reconsititution       It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	Annogranco	Lyaphilizad paydar			
Endotoxin Level <1 EU/μg, determined by LAL method.  Reconsititution  It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	Appearance	Lyopiiiiizea powaei			
Endotoxin Level <1 EU/μg, determined by LAL method.  Reconsititution  It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	Formulation	Lyaphilizad from a 0.2 um	filtered colution of DDC nU	7.4	
Reconsititution It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	Formulation	Lyopiiiiizeu iroiii a 0.2 μiii	intered solution of PB3, pri	1.4.	
Reconsititution It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	Endatovin Level	<1 FII/ug datarminad by	Al mothod		
recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	Elidotoxiii Levet	<1 EO/μg, determined by	LAL Method.		
recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	Doconcititution	It is not recommended to		ion loss than 100 ug/ml in s	Idu O Farlangtarm starage it is
	Reconstitution				
Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is		recommended to add a ca	irrier protein (0.1% BSA, 5%	noa, 10% rdo or 5% Trenat	usej.
Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is	Change of Chalaitin	Channel at 200C fau 2	Afternational transfer of the state of the s	abla at 400 fam 1al 20	9C faulanan (ith annian antain) 11
	Storage & Stability	Stored at -20°C for 2 years	. After reconstitution, it is st	able at 4°C for 1 week or -20	C for longer (with carrier protein). It is

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	recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

## **DESCRIPTION**

Background

ERBB4 is a protein that plays important roles in the development of the central nervous system, neural crest cell migration, and axon guidance. It is also involved in mammary gland differentiation, induction of milk proteins, and lactation.

Caution: Product has not been fully validated for medical applications. For research use only.

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