

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

AA Sequence

Q S V C A G T E N K	L S S L S D L E Q Q	Y R A L R K Y Y E N	C E V V M G N L E I
T S I E H N R D L S	F L R S I R E V T G	Y V L V A L N Q F R	Y L P L E N L R I I
R G T K L Y E D R Y	A L A I F L N Y R K	D G N F G L Q E L G	L K N L T E I L N G
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 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 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 MCF7 human breast cancer cells. The ED₅₀ for this effect is 3.464 µg/mL in the presence of 10 ng/mL. Recombinant Human NRG1β, 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.

Reconstitution

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).

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 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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