

TrkB Protein, Canine (HEK293, His)

Cat. No.:	HY-P73461
Synonyms:	BDNF/NT-3 Growth Factors Receptor; Trk-B; NTRK2; TRKB
Species:	Canine
Source:	HEK293
Accession:	XP_541264.2 (C32-H430)
Gene ID:	484147
Molecular Weight:	Approximately 60-78 kDa

PROPERTIES

AA Sequence	<p>C P T S C K C S A S R I W C S D P S P G I V A F P R L E P N S A D P E N I T E I</p> <p>Y I A N Q K R L E I I N E D D V E A Y A G L K N L T I V D S G L K F V A H K A F</p> <p>L K N S N L Q H I N F T R N K L T S L S R K H F R H L D L S E L I L V G N P F T</p> <p>C S C D I M W I K T L Q E T K S S P E T Q D L Y C L N E S S K N I P L A N L Q I</p> <p>P N C G L P S A N L A A P N L T V E E G K S I T L S C S V A G D P V P N L Y W D</p> <p>V G N L V S K H M N E T S H M Q G S L R I T N I S S D D S G K Q I S C V A E N L</p> <p>V G E D Q D S V N L T V H F A P T I T F L E S P T S D H H W C I P F T V K G N P</p> <p>K P A L Q W F Y N G A I L N E S K Y I C T K I H V T N H T E Y H G C L Q L D N P</p> <p>T H M N N G D Y K L V A K N E Y G K D E K Q I S A H F M G W P G I D D G A N P N</p> <p>Y P D V I Y E D Y G T A A N D I G D T T N R S N E I P S T D V A D K S G R E H</p>
Biological Activity	Immobilized canine TrkB at 10 µg/mL (100 µL/well) can bind biotinylated mouse BDNF. The ED ₅₀ for this effect is 69.78 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, PH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 ₂ O.
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

TrkB protein has a high affinity for brain-derived neurotrophic factor (BDNF) and plays a role in various physiological functions of neurons, including cell survival and differentiation^[1].

TrkB protein is involved in epithelial-mesenchymal transition associated with increased migration and invasion in many cancer cell lines^[3].

Abnormal activation caused by overexpression or fusion of TrkB protein can promote the genesis, progression, and treatment resistance of various types of neurogenic tumors^[5].

Dysregulation of TrkB protein is associated with the pathogenesis of many diseases, such as neurodegenerative diseases, angiogenesis, lung adenocarcinoma, and gastric cancer^{[2][3][4]}.

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

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