Recombinant Canine NTRK, His-tagged

Cat. No. NTRK-344C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the canine NTRK (Met1-His430) was expressed with a C-terminal polyhistidine tag.
Species	Canine
Source	Human Cells
ProteinLength	1-430 a.a.
Description	TrkB is a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor exclusively expressed in neurons of the central nervous system. BDNF(brain-derived neurotrophic factor) exerts biological actions through its physiological receptor TrkB which leads to the initiation of intracellular signaling cascades and different biological responses in neurons. TRKB has two distinct binding regions for BDNF within the extracellular domain with high affinity. Other neurotrophins include nerve growth factor(NGF), neurotrophin-3 and neurotrophin-4. Upon neurotrophin binding, TrkB phosphorylates itself and the downstream molecular members of the related signal pathways. TrkB has been shown to play an important role in tumorigenesis and metastasis, and mutations in this gene are associated with obesity and mood disorders. Accordingly, BDNF/TrkB signaling is thought to be a potential therapeutic target for schizophrenia.
Predicted N Terminal	Cys 32
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are

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	added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
Molecular Mass	The recombinant canine NTRK comprises 410 amino acids and has a predicted molecular mass of 45.6 kDa. The apparent molecular mass of the protein is approximately 66-76 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 eu per μg of the protein as determined by the lal
Purity	>95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Storage	Store it under sterile conditions at -70℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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