GFRA1/GDNFR-alpha-1 Protein, Canine (HEK293, His)

Cat. No.:	HY-P77371
Synonyms:	GDNF family receptor alpha-1; GFR-alpha-1; GDNFRA; TRNR1
Species:	Canine
Source:	HEK293
Accession:	XP_852087.1 (D25-S429)
Gene ID:	609114
Molecular Weight:	Approximately 53-60 kDa due to the glycosylation

PROPERTIES

AA Sequence	D R L D C V K A S D Q C L K E Q S C S T K Y R T L R Q C V A G K E T N F S L T S G L E A K D E C R S A M E A L K Q K S L Y N C R C K R G M K K E K N C L R I Y W S M Y Q S L Q G N D L L E D S P Y E P V N S R L S D I F R V V P F L P D V L Q Q V E H I P K G N N C L D A A K A C N L D D T C K K Y R S A Y I T P C T T S M S N E V C N R R K C H K A L R Q F F D K V P A K H S Y G M L F C S C R D I A C T E R R R Q T I V P V C S Y E E R E K P N C L N L Q D S C K T N Y I C R S R L A D F F T N C Q P E S R S A S S C L K E N Y A D C L L A Y S G L I G T V M T P N Y I D S S S L S V A P W C D C S N S G N D L E E C L K F L N F F K D N T C L K N A I Q A F G N G S D V T V W Q P A L P V Q T T T A T T T T A F R A K N K P L G P A G S E N E I P T H V L P P C A N L Q A Q K L K S N M S G S T H L C L S D R D Y E K N G L S G P S
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Recombinant Canine GDNF at 1 μg/mL binds Recombinant Canine GFR alpha-1/GDNF R alpha-1. The kD is 4.078 nM.
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_2O. 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	Glycosylphosphatidylinositol-linked GDNF (glial cell-derived neurotrophic factor) receptor alpha (GFRA) is a co-receptor that recognizes the GDNF ligand family and plays a critical role in the development and maintenance of the nervous system. GFRA1 is involved in the regulation of proliferation, differentiation and migration of neuron cells. GFRA1 has also been implicated in the progression and metastasis of cancer cells. GFRA1 promotes autophagy through the SRC-AMP-activated protein kinase (AMPK) signaling pathway, thereby contributing to the development of cisplatin-induced chemotherapy resistance to osteosarcoma[1][2][3].

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

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