Recombinant Canis KIT Protein, His-tagged

Cat. No. KIT-11031C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Canis CD117 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 28 - Pro 527 (Accession # O97799-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Gln 28
Species	Canis
Source	HEK293
ProteinLength	28-527 aa
Description	This gene encodes a receptor tyrosine kinase. This gene was initially identified as a homolog of the feline sarcoma viral oncogene v-kit and is often referred to as proto-oncogene c-Kit. The canonical form of this glycosylated transmembrane protein has an N-terminal extracellular region with five immunoglobulin-like domains, a transmembrane region, and an intracellular tyrosine kinase domain at the C-terminus. Upon activation by its cytokine ligand, stem cell factor (SCF), this protein phosphorylates multiple intracellular proteins that play a role in in the proliferation, differentiation, migration and apoptosis of many cell types and thereby plays an important role in hematopoiesis, stem cell maintenance, gametogenesis, melanogenesis, and in mast cell development, migration and function. This protein can be a membrane-bound or soluble protein. Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2020]

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Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 57.8 kDa. The protein migrates as 65-95 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	KIT v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog [Canis lupus familiaris]
Official Symbol	KIT
Synonyms	KIT; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; mast/stem cell growth factor receptor Kit; SCFR; c-KIT gene1; proto-oncogene c-Kit; tyrosine-protein kinase Kit; receptor tyrosine kinase c-kit; proto-oncogene tyrosine-protein kinase Kit; c-KIT;
Gene ID	403811

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mRNA Refseq	NM_001003181
Protein Refseq	NP_001003181
UniProt ID	O97799

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