

Recombinant Canine INSR Protein, His-tagged

Cat. No. INSR-11108C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Canine Insulin R (28-956) Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA His 28 - Ile 956 (Accession # A0A8I3PWD4). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: His 28
Species	Canine
Source	HEK293
ProteinLength	28-956 aa
Description	Insulin receptor (INSR) is also known as CD antigen CD220, which can be cleaved into the following 2 chains: Insulin receptor subunit alpha and Insulin receptor subunit beta. INSR is a tetramer of 2 alpha and 2 beta chains linked by disulfide bonds. The alpha chains carry the insulin-binding regions, while the beta chains carry the kinase domain. Forms a hybrid receptor with IGF1R, the hybrid is a tetramer consisting of 1 alpha chain and 1 beta chain of INSR and 1 alpha chain and 1 beta chain of IGF1R. In addition to binding insulin, the insulin receptor can bind insulin-like growth factors (IGFI and IGFI). Isoform Short of INSR has a higher affinity for IGFI binding. When present in a hybrid receptor with IGF1R, INSR binds IGF1.
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 107.5 kDa. The protein migrates as 110-130 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
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	INSR insulin receptor [Canis lupus familiaris]
Official Symbol	INSR
Synonyms	INSR; insulin receptor;
Gene ID	484990
UniProt ID	A0A8I3PWD4

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