

Recombinant Feline INSR Protein, His&Avi-tagged, Biotin-labeled

Cat. No. INSR-11110F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Feline Insulin R (28-956) Protein, His, Avitag is expressed from human 293 cells (HEK293). It contains AA His 28 - Ile 956 (Accession # A0A2I2UE37). This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag). Predicted N-terminus: His 28
Species	Feline
Source	HEK293
ProteinLength	28-956 aa
Conjugation/Label	Biotin
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

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	µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Specificity	Protein Ratio: Passed as determined by the HABA assay/binding ELISA.
Molecular Mass	The protein has a calculated MW of 109.2 kDa. The protein migrates as 95-130 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.
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 [<i>Felis catus</i> (domestic cat)]
Official Symbol	INSR
Synonyms	INSR; insulin receptor; insulin receptor
Gene ID	100127108
mRNA Refseq	XM_023244792

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Protein Refseq	XP_023100560
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UniProt ID	A0ABI7YJR5
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