

Active Recombinant Canine GHR Protein, His-tagged

Cat. No. GHR-11094C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Canine Growth Hormone R, His Tag is expressed from human 293 cells (HEK293). It contains AA Thr 27 - Gln 264 (Accession # Q9TU69-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Thr 27
Species	Canine
Source	HEK293
ProteinLength	27-264 aa
Description	Growth hormone receptor (GHR) is also known as somatotropin receptor, growth hormone-binding protein (GHBR), which belongs to the type I cytokine receptor family or Type 1 subfamily. GHR contains one fibronectin type-III domain. GHR/GHBR is expressed in various tissues with high expression in liver and skeletal muscle. The soluble form (GHBP) is produced by phorbol ester-promoted proteolytic cleavage at the cell surface (shedding) by ADAM17/TACE. GHR is receptor for pituitary gland growth hormone involved in regulating postnatal body growth. On ligand binding, couples to the JAK2/STAT5 pathway. The soluble form (GHBP) acts as a reservoir of growth hormone in plasma and may be a modulator/inhibitor of GH signaling.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human GH, Tag Free at 2 µg/mL (100 µL/well) can bind Canine Growth Hormone R, His Tag with a linear range of 0.1-16 ng/mL.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	The protein has a calculated MW of 29.2 kDa. The protein migrates as 43-53 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
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	GHR growth hormone receptor [<i>Canis lupus familiaris</i>]
Official Symbol	GHR
Synonyms	GHR; growth hormone receptor; GH receptor; somatotropin receptor;
Gene ID	403721
mRNA Refseq	NM_001003123
Protein Refseq	NP_001003123
UniProt ID	Q9TU69

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