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**Growth hormone receptor, 19-265aa, Rat, His tag, Insect cell**

**Cat.NO.: TP02337**

3th Edition

**Synonyms:**GHR, GHR/BP

**Description:**GHR, also known as growth hormone receptor, is a member of the cytokine receptor superfamily. GHR forms a complex with a tyrosine kinase, suggesting involvement of a ligand-activated tyrosine kinase in intracellular signaling by growth hormone (GH). Binding of GH to its receptor results in dimerization of the receptor, phosphorylation of the tyrosine kinase JAK2 and of the receptor, followed by a cascade of protein phosphorylations. Recombinant rat GHR, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:**Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:**29.4kDa (255aa), 28-40kDa (SDS-PAGE under reducing conditions)

**Sequences:**

FPGSGATPATLGKASPVLQRINPSLRESSSGKPRFTKCRSPELETFSCYWTEGDDHNLKVPGSIQLYYARRIAHEW  
TPEWKECPDYVSAGANSCYFNSSYTSIWIPYCIKLTNGDLLKEKCFTVDEIVQPDPPIGLNWTLNLSLPGIRGDIQV  
SWQPPPSADVLKGWIILEYEIQYKEVNETKWKTMSPIWSTSVPLYSLRLDKEHEVRVRSRQRSFEKYSEFSEVLRV  
TFPQMDTLAACEEDFRLEHHHHHH

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.