

Recombinant human Growth Hormone R/GHR protein

Catalog Number: ATGP3207

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-264aa

UniProt No.

P10912

NCBI Accession No.

NP_000154

Alternative Names

GHR, GHBP, GHIP

PRODUCT SPECIFICATION

Molecular Weight

29.4 kDa (254aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by ability to inhibit GH-induced proliferation assay using Nb2-11 Rat lymphoma cells in the presence of 1.25ng/ml of human growth hormone. The ED50 range \leq 10ng/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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Description

GHR, also known as growth hormone receptor, is a member of the cytokine receptor family. It binds two receptor molecules and thereby induces signal transduction through receptor dimerization. At high concentrations, growth hormone acts as an antagonist because of a large difference in affinities at the respective binding sites. This antagonist action can be enhanced further by reducing binding in the low affinity binding site. Recombinant human GHR, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

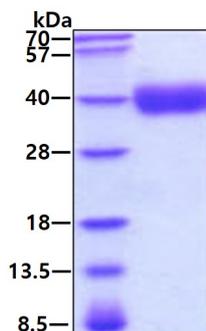
FSGSEATAAI LSRAPWSLQS VNPGLKTNSS KEPKFTKCRS PERETFSCHW TDEVHHGTKN LGPIQLFYTR RNTQEWTQEW
 KPCPDYVSAG ENSCYFNSSF TSIWIPYCIK LTSNGGTVDE KCFSVDEIVQ PDPPIALNWT LLNVSLTGIH ADIQVRWEAP
 RNADIQKGWM VLEYELQYKE VNETKWKMMMD PILTTSVPVY SLKVDKEYEV RVRSKQRNSG NYGEFSEVLY VTLPQMSQFT
 CEEDFY<LEHH HHHH>

General References

Yang N., et al. (2007) Mol Endocrinol. 21:1642-1655.
 Ross RJ., et al. (1997) Mol Endocrinol. 11:265-273.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

Human Growth Hormone R/GHR in inhibit the cell growth using Nb2-11 Rat lymphoma cells in the presence of 1.25ng/ml of human growth hormone. The ED50 range ≤ 10 ng/ml.

