



Recombinant Protein Technical Manual

**Recombinant Mouse Growth Hormone
Receptor/GHR Protein (Fc Tag)**
RPES0573

Product Data:

Product SKU: RPES0573

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q3UP14

Protein Information:

Molecular Mass: 58.3 kDa

AP Molecular Mass: 65-90 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to it for detailed information.

Application:

Synonyms: growth hormone binding protein; growth hormone receptor; serum binding protein; Somatotropin receptor;GHR; GH receptor; GHBP

Immunogen Information:

Sequence: Met1-Gln273

Background:

Growth hormone receptor is a transmembrane receptor for growth hormone (GH). GH is a single-chain polypeptide that is mainly synthesized and released from the anterior pituitary gland and plays essential roles in growth, development and metabolism. GH exerts its physiological actions via GH binding to its receptor in its extracellular domain. Binding of growth hormone to the receptor leads to receptor dimerization and the activation of an intra- and intercellular signal transduction pathway leading to growth. Growth hormone receptor has been shown to interact with SGTA, PTPN11, Janus kinase 2, Suppressor of cytokine signaling 1 and CISH.