

DESCRIPTION

Source Mouse myeloma cell line, NS0-derived human IGF-I R/IGF1R protein
Met1-Asn932
Accession # P08069

N-terminal Sequence Analysis Glu31 and Asp741

Predicted Molecular Mass 102.9 kDa (single chain); 81.0 kDa (α chain) & 21.9 kDa (β chain)

SPECIFICATIONS

SDS-PAGE 160 kDa, 125 kDa, 50 kDa & 40 kDa, reducing conditions

Activity Measured by its binding ability in a functional ELISA.
Recombinant Human IGF-I R/IGF1R (Catalog # 391-GR) binds to Recombinant Human IGF-I/IGF-1 (Catalog # 291-G1).

Endotoxin Level <0.10 EU per 1 μ g of the protein by the LAL method.

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Formulation Lyophilized from a 0.2 μ m filtered solution in PBS. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 100 μ g/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

IGF-I receptor is a disulfide-linked heterotetrameric transmembrane protein consisting of two α and two β subunits. Both the α and β subunits are encoded within a single receptor precursor cDNA. The proreceptor polypeptide is proteolytically cleaved and disulfide-linked to yield the mature heterotetrameric receptor. The α subunit of IGF-I receptor is extracellular while the β subunit has an extracellular domain, a transmembrane domain and a cytoplasmic tyrosine kinase domain. The IGF-I receptor is highly expressed in all cell types and tissues. Essentially all of the biological activities of IGF-I and II have been shown to be mediated via IGF-I R.

References:

1. Rechler, M.M. and S.P. Nissley (1990) in *Insulin-Like Growth Factors*. Sporn, M.B. and A.B. Roberts (eds): *Peptide Growth Factors and Their Receptors I*, New York: Springer-Verlag, p. 263.