

Active Recombinant Human IGF2R, His-tagged

Cat. No. IGF2R-611H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF2R (Ser1510Phe2108) fused with a Cterminal and 6His tag, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a receptor for both, insulin-like growth factor 2 (IGF2) and mannose 6-phosphate (M6P). The IGF2 and M6P binding sites are located on different segments of the receptor. This receptor functions in the intracellular trafficking of lysosomal enzymes, the activation of transforming growth factor beta, and the degradation of IGF2. While the mouse Igf2r gene shows exclusive expression from the maternal allele, imprinting of the human IGF2R gene appears to be polymorphic, with only a minority of individuals showing expression from the maternal allele.
Molecular Mass	The predicted molecular mass is 67 kDa. The apparent molecular mass of this protein is approximately 80-83 kDa in SDS-PAGE under reducing conditions.
Predicted N terminal	Ser1510
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS.
Purity	>90% as determined by SDSPAGE

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Activity	Measured by its binding ability in a functional ELISA. Immobilized rhIGFII R at 2 g/mL (100 µ/well) can bind rhIGFII with a linear range of 2100 ng/mL.
EndotoxinLevel	<1.0 EU per 1 µg of the protein by the LAL method.
Storage	12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freezethaw cycles.
OfficialSymbol	IGF2R

GENE INFORMATION

Gene Name	IGF2R insulin-like growth factor 2 receptor [Homo sapiens]
Synonyms	IGF2R; insulin-like growth factor 2 receptor; cation-independent mannose-6-phosphate receptor; cation independent mannose 6 phosphate receptor; CD222; CIMPR; M6PR; MPR1; MPRI
Gene ID	3482
mRNA Refseq	NM_000876
Protein Refseq	NP_000867
MIM	147280
UniProt ID	P11717
Chromosome Location	6q26

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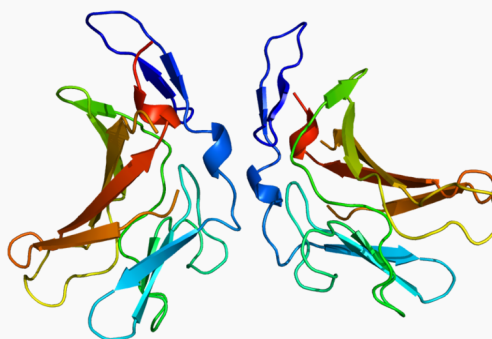
Pathway

Clathrin derived vesicle budding; Golgi Associated Vesicle Biogenesis; Lysosome; Membrane Trafficking

Function

glycoprotein binding; insulin-like growth factor binding; insulin-like growth factor-activated receptor activity; mannose binding; phosphoprotein binding

**PDBrendering based
on 1e6f.**



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