

## Active Recombinant Human IGF2R, His-tagged

**Cat. No.** IGF2R-677H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IGF2R (Gln41Asp1365) fused with a Cterminal 6His tag, was expressed in CHO Cells.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	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.
<b>Molecular Mass</b>	The predicted molecular mass is 147 kDa (monomer). The apparent molecular mass of the monomer is approximately 160180 kDa in SDS-PAGE under reducing conditions.
<b>Predicted N terminal</b>	Ala43
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Purity</b>	>95% as determined by SDSPAGE

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<b>Activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant Human IGF-IIR is immobilized at 2 µg/mL (100 µ/well), the concentration of Recombinant Human CREG that produces 50% of the optimal binding response is found to be approximately 2 - 10 ng/mL.
<b>Endotoxin Level</b>	<0.01 EU per 1 µg of the protein by the LAL method.
<b>Storage</b>	12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	IGF2R

## GENE INFORMATION

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

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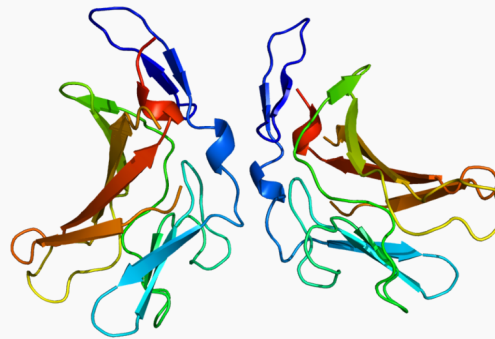
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**Location****Pathway**

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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