Active Recombinant Human IGF2R, His-tagged

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

SPECIFICATION

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

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Activity	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 theoptimal binding response is found to be approximately 2 - 10 ng/mL.
EndotoxinLevel	<0.01 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	6q26

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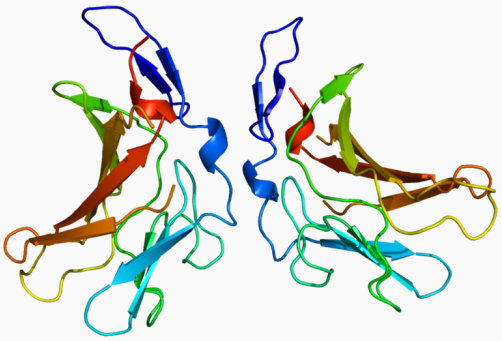
Location	
Pathway	Clathrin derived vesicle budding; Golgi Associated Vesicle Biogenesis; Lysosome; Membrane Trafficking
Function	glycoprotein binding; insulin-like growth factor binding; insulin-like growth factor-activated receptor activity; mannose binding; phosphoprotein binding
PDBrendering based on 1e6f.	

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