

Recombinant Human IGF2R, His-tagged

Cat. No. IGF2R-29238TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1510-1761 of Human Mannose 6 Phosphate Receptor with N terminal His tag; 252 amino acids, 29kDa.
Species	Human
Source	E.coli
ProteinLength	1510-1761 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 81 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SNEHDDCQVTNPSTGHLFDLSSLSGRAGFTAAYSEKGLVY MSICGENENCPPGVG ACFGQTRISVGKANKRLRYVDQV LQLVYKDGSPCPSKSGLSYKSVISFVCRPEAGP TNRPLMI SLDKQTCTLFFSWHTPLACEQATECSVRNGSSIVDLSP LIHRTGGYEAYD ESEDASDTNPDFYINICQPLNPMHG VPCPAGAAVCKVPIDGPPIDIGRVAGPPILNP IANEIYLN FESSTPCLADKHFNYTSL
Sequence Similarities	Belongs to the MRL1/IGF2R family.Contains 1 fibronectin type-II domain.

GENE INFORMATION

Gene Name	IGF2R insulin-like growth factor 2 receptor [Homo sapiens]
Official Symbol	IGF2R
Synonyms	IGF2R; insulin-like growth factor 2 receptor; cation-independent mannose-6-phosphate receptor; cation independent mannose 6 phosphate receptor; CD222; CIMPR; M6P R; MPR1; MPRI;
Gene ID	3482
mRNA Refseq	NM_000876
Protein Refseq	NP_000867
MIM	147280
Uniprot ID	P11717

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Chromosome Location	6q25-q27
Pathway	Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Membrane Trafficking, organism-specific biosystem;
Function	glycoprotein binding; insulin-like growth factor binding; insulin-like growth factor-activated receptor activity; mannose binding; phosphoprotein binding;

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