

Recombinant Human Intelectin 1 (galactofuranose binding)

Cat. No. ITLN1-113H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Omentin is produced in E.Coli by recombinant DNA technology is a single, polypeptide chain containing 313 amino acids and having a molecular mass of 35 kDa. Intelectin is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Omentin is a recently recognized gene highly localized to the mental tissue (visceral adipose tissue). Omentin is present in the stromal vascular cells in the adipose tissue rather than in the adipocytes. Omentin is predominantly expressed in the visceral adipose tissue than the subcutaneous tissue, with the omentin mRNA being 150 times higher in the visceral adipose tissue. Omentin has also been detected in human blood using western blot analysis, and seems to increase insulin-stimulated glucose uptake in 3T3-L1 adipocytes in mice. Omentin seems to increase Akt phosphorylation irrespective of insulin presence. Its role in glucose metabolism and obesity remains to be described; an insulin-sensitizing action is possible. Differences in Omentin expression has been noted in adipose tissue from normals and patients with inflammatory bowel disease although its significance is unknown.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Formulation	Each mg of lyophilized powder contains 5mM sodium phosphate buffer pH-7.5 and 0.5% mannitol.
Solubility	It is recommended to reconstitute the lyophilized Omentin in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	MNQLSFLFL IATTRGWSTD EANTYFKEWT CSSSPSLPRS CKEIKDECPS AFDGLYFLRT ENGVYQTF CDMTSGGGGWT LVASVHENDM RGKCTVGDRW SSQQGSKADY PEGDGNWANY NTFGSAEAAT SDDYKNPGYY DIQAKDLGIW HVPNKSPMQH WRNSSLLRYR TDTGFLQTLG HNLFGIYQKY PVKYGEGKCW TDNGPVIPIV YDFGDAQKTA SYSPYQGRE FNNERAANAL CAGMRVTGCN TEHHCIGGGG YFPEASPQQC GDFSGFDWSG YGTHVGYSSS REITEAAVLL FYR
Applications	Elisa, Western blot.
Storage	Lyophilized Intelectin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Intelectin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	ITLN1 intelectin 1 (galactofuranose binding) [Homo sapiens]
Synonyms	Intelectin-1; HL1; LFR; HL-1; INTL; ITLN; hIntL; FLJ20022; OTTHUMP00000027882; intelectin; omentin; Endothelial lectin HL-1; Galactofuranose-binding lectin; Intestinal lactoferrin receptor; intelectin 1 (galactofuranose binding); ITLN1; UNQ640/PRO1270
Gene ID	55600

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mRNA Refseq	NM_017625
Protein Refseq	NP_060095
MIM	609873
UniProt ID	Q8WWA0
Chromosome Location	1q22-q23.5
Function	receptor binding; sugar binding

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