



## Product Datasheet

<b>Product Name</b>	Omentin Human Recombinant
<b>Cata No</b>	CB500203
<b>Source</b>	<i>E.Coli</i>
<b>Synonyms</b>	Intelectin-1, HL1, LFR, HL-1, INTL, ITLN, hIntL.

### 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.

Omentin Human Recombinant 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.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

### Purity

Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

### Formulation

Each mg of lyophilized powder contains 5mM sodium phosphate buffer pH-7.5 and 0.5% manntiol.

### Stability

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.**

### Sequence

```
MNQLSFLFL IATTRGWSTD  
EANTYFKEWTCSSPSLPRS CKEIKDECPS  
AFDGLYFLRT ENGVYQTF CDMTSGGGGWT  
LVASVHENDM RGKCTVGDRW SSQQGSKADY  
PEGDGNWANY NTFGSAEAT SDDYKNPGYY  
DIQAKDLGIW HVPNKSPMQH WRNSSLLRYR  
TDTGFLQTLG HNLFGIYQKY PVKYGEGKCW  
TDNGPVI PVV YDFGDAQTA SYSPYGGRE  
FNNERAANAL CAGMRVTGCN TEHHCIGGGG  
YFPEASPQQC GDFSGFDWSG YGTHVGYSSS  
REITEAAVLLFYR
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## Applications

Elisa

Western blot.

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