



## Product Datasheet

<b>Product Name</b>	Recombinant Human Omentin, His Tag
<b>Cata No</b>	CB501285
<b>Source</b>	<i>Escherichia 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 294 amino acids and having a molecular mass of 32.7 kDa.

Recombinant Human Omentin contains His tag fused at N-Terminus.

Intelectin is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered White lyophilized powder.

### 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 20mM Tris & 50mM NaCl pH-8.0.

### Reconstitution

It is recommended to reconstitute the lyophilized Omentin His Tag in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Intelectin His Tag 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

MRGSHHHHHH GMASTDEANT YFKEWTCSSS  
PSLPRSCKEI KDECPSAFDG LYFLRTENGV  
IYQTFCDMTS GGGGWTLVAS VHENDMRGKC  
TVGDRWSSQQ GSKAVYPEGD GNWANYNTFG

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SAEAATSDDY KNPGYYDIQA KDLGIWHVPN  
KSPMQHWRNS SLLRYRTDTG FLQTLGHNLF  
GIYQKYPVKY GEGKCWTDNG PVIPVVYDFG  
DAQKTASYYS PYGQREFTAG FVQFRVFNNE  
RAANALCAGM RVTGCNTEHH CIGGGGYFPE

## Product Datasheet

ASPQQCGDFS GFDWSGYGTH VGYS.

### Application

Elisa  
Western blot.

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