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**Product Data Sheet**


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Product Name: Omentin Human

Cat. No.: GP20792

Batch No.: 1

**Product Data**

Purity	>98%	Source	E.Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Intelectin-1; HL1; LFR; HL-1; INTL; ITLN; hIntL.		
Amino Acid Sequence	MNQLSFLFL IATTRGWSTD EANTYFKEWTCSSPSLPRS CKEIKDECPS AFDGLYFLRT ENGVYQTF C DMTSGGGGWT LVASVHENDM RGKCTVGDRW SSQQGSKADY PEGDGNWANY NTFGSAEAAT SDDYKNPGYY DIQAKDLGIW HVPNKSPMQH WRNSSLLRYR TDTGFLQTLG HNLFGIYQKY PVKYGEGKCW TDNGPVIPVV YDFGDAQKTA SYSPYQRE FNNERAANAL CAGMRVTGCN TEHHCIGGGG YFPEASPQQC GDFSGFDWSG YGTHVGYSSS REITEAAVLLFYR.		
Solubility	It is recommended to reconstitute the lyophilized Omentin in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Each mg of lyophilized powder contains 10mM NaP, pH-7.5 and 5:1 mannitol to protein.		

**Introduction**

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Lyophilized Intelectin although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution Intelectin should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

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.

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