

---

**Product Data Sheet**


---

Product Name: Omentin Human, His

Cat. No.: GP20793

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Intelectin-1; HL1; LFR; HL-1; INTL; ITLN; hIntL.		
Amino Acid Sequence	MRGSHHHHHH GMASTDEANT YFKEWTCSSS PSLPRSCKEI KDECPSAFDG LYFLRTENGV IYQTFCDMTS GGGGWTLVAS VHENDMRGKC TVGDRWSSQQ GSKAVYPEGD GNWANYNTFG SAEAATSDDY KNPGYIDIQA KDLGIWHVPN KSPMQHWRNS SLLRYRTDTG FLQTLGHNLF GIYQKYPVKY GEGKCWTDNG PVIPVVYDFG DAQKTASYYS PYGQREFTAG FVQFRVFNNE RAANALCAGM RVTGCNTEHH CIGGGGYFPE ASPQQCGDFS GFDWSGYGTH VGYS.		
Solubility	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.		
Formulation	Each mg of lyophilized powder contains 20mM Tris & 50mM NaCl pH-8.0.		

**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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

---

---

## Product Data Sheet

---

### Stability

Lyophilized Intelectin His Tag 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 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.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

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