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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Omentin, His Tag, human recombinant (rHuOmentin-His)

**Catalog No:** 97158  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Intellectin-1, HL1, LFR, HL-1, INTL, ITLN, hIntL

### Background

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.

### Description

Omentin human recombinant is produced in *E. coli* is a single, polypeptide chain containing 294 amino acids and having a molecular mass of 32.7 kDa. Recombinant human Omentin contains a N-terminal His Tag. Omentin is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Each mg of lyophilized powder contains 20 mM Tris and 50 mM NaCl pH 8.0.

### Solubility

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

### Stability

Lyophilized Intellectin His Tag, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Intellectin 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.

### Purity

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

### Amino Acid Sequence

MRGSHHHHHH GMASTDEANT YFKEWTCSSS PSLPRSCKEI KDECPSAFDG LYFLRTENGV IYQTFCDMTS GGGGWTLVAS  
VHENDMRGKC TVGDRWSSQQ GSKAVYPEGD GNWANYNTFG SAEAATSDDY KNPGYYDIQA KDLGIWHVPN KSPMQHWRNS  
SLLRYRTDTG FLQTLGHNLF GIYQKYPVKY GEGKCWTDNG PVI PVVYDFG DAQKTASYYS PYGQREFTAG FVQFRVFNNE  
RAANALCAGM RVTGCNTEHH CIGGGGYFPE ASPQQCGDFS GFDWSGYGTH VGYS



### Applications

WB\*ELISA

### Usage

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