



## Omentin 298 a.a., human recombinant (rHuOmentin)

**Catalog No:** 97551  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Intelectin-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 produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 298 amino acids (17-313) and having a molecular mass of 33.2 kDa. Omentin is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless solution.

### Formulation

The Omentin protein (1 mg/ml) is supplied in 20 mM Tris-HCl, pH 8, 0.4 M urea and 10% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Purity

Greater than 90.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MWSTDEANTY FKEWTCSSSP SLPRSCKEIK DECPSAFDGL YFLRTENGVI YQTFCDMTSG GGGWTLVASV HENDMRGKCT  
VGDRWSSQQG SKAVYPEGDG NWANYNTFGS AEAATSDDYK NPGYYDIQAK DLGIWHVPNK SPMQHWRNSS LLRYRTDTGF  
LQTLGHNLFG IYQKYPVKYG EGKCWTDNGP VIPVVYDFGD AQTASYYSY YGQREFTAGF VQFRVFNNER AANALCAGMR  
VTGCNTEHHC IGGGGYFPEA SPQQCGDFSG FDWSGYGTHV GYSSSREITE AAVLLFYR

### Usage

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