
Product Data Sheet

Product Name: Omentin 298 a.a. Human

Cat. No.: GP20794

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Intelectin-1; HL1; LFR; HL-1; INTL; ITLN; hIntL.		
Amino Acid Sequence	MWSTDEANTY FKEWTCSSSP SLPRSCKEIK DECPSAFDGL YFLRTENGVI YQTFCDMTSG GGGWTLVASV HENDMRGKCT VGDRWSSQQG SKAVYPEGDG NWANYNTFGS AEAATSDDYK NPGYYDIQAK DLGIWHVPNK SPMQHWRNSS LLRYRTDTGF LQTLGHNLFG IYQKYPVKYG EGKCWTDNGP VIPVVYDFGD AQKTASYSP YGQREFTAGF VQFRVFNNER AANALCAGMR VTGCNTEHHC IGGGGYFPEA SPQQCGDFSG FDWSGYGTHV GYSSSREITE AAVLLFYR		
Formulation	Omentin protein (1mg/ml) is supplied in 20mM Tris-HCL, pH-8, 0.4M Urea and 10% Glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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.

Background

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. The Omentin is purified by proprietary chromatographic techniques.

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