

32-1636: Omentin Recombinant Protein

Alternative Name : Intelectin-1,HL1,LFR,HL-1,INTL,ITLN,hIntL.

Description

Source : E.Coli. 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. 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.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	Each mg of lyophilized powder contains 20mM NaP, pH-7.5 and 0.5% manntiol.
Storage condition :	Lyophilized Intelectin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Intelectin 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.
Amino Acid :	MNQLSFLLFL IATTRGWSTD EANTYFKEWTCSSPSLPRS CKEIKDECPS AFDGLYFLRT ENGVIYQTFCDMTSGGGGWT LVASVHENDM RGKCTVGDRW SSQQGSKADY PEGDGNWANY NTFGSAAEAT SDDYKNPGYY DIQAKDLGIW HVPNKSPMQH WRNSSLLRYR TDTGFLQTLG HNLFGIYQKY PVKYGEGKCW TDNGPVI PVV YDFGDAQKTA SYSPYQGRE FNNERAANAL CAGMRVTGCN TEHHCIGGGG YFPEASPQC GDFSGFDWSG YGTHVGYSSS REITEAAVLLFYR.

Application Note

It is recommended to reconstitute the lyophilized Omentin in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.