ITLN1
Recombinant Human Omentin/Intelectin-1

Catalog No.	CRO104A	**Quantity:**	2 µg
	CRO104B		10 µg
	CRO104C		1.0 mg

Alternate Names: HL1, LFR, HL-1, INTL, ITLN, hIntL, ITLN1

Description: Omentin/Intelectin-1 is a recently recognized gene highly localized to omental 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 the adipose tissue of healthy humans and patients with inflammatory bowel disease although its significance is unknown.

Recombinant Human Omentin/Intelectin-1 is a single polypeptide chain containing 313 amino acids.

Gene ID: 55600

Protein Accession No: Q8WWA0

Source: *E. coli*

Molecular Weight: 35 kDa

Formulation: Lyophilized sterile filtered white powder. Each mg contains 5 mM Sodium Phosphate Buffer, pH 7.5, + 0.5% Mannitol.

Purity: >95.0% as determined by SDS-PAGE

Amino Acid Sequence: MNQLSFLLFL IATTRGWSTD EANTYFKEWTCSSSPSLPRS CKEIKDECPS AFDGLYFLRT ENGVIYQTFC DMTSGGGGWT LVASVHENDM RGKCTVGDRW SSQQGSKADY PEGDGNWANY NTFGSAEAAT SDDYKNPGYY DIQAKDLGIW HVPNKSPMQH WRNSSLLRYR TDTGFLQTLG HNLFGIYQKY PVKYGEGKCW TDNGPVIPVV YDFGDAQKTA SYYSPYGQRE FNNERAANAL CAGMRVTGCN TEHHCIGGGG YFPEASPQQC GDFSGFDWSG YGTHVGYSSS REITEAAVLLFYR.

Reconstitution: **Centrifuge vial prior to opening**. It is recommended to reconstitute the protein in sterile distilled water to a concentration not less than 100 µg/ml, which can then be further diluted in other aqueous solutions.

Applications: ELISA, Western blot.

Storage & Stability: Store lyophilized protein at -20°C. After reconstitution, protein is stable at 2-4°C for 1 week. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA), aliquot, and freeze at -20°C. This depends upon the particular application employed. **Avoid repeated freeze-thaw cycles.**

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