

## BACKGROUND:

Omentin is an adipokine that is produced and secreted by the small intestine, visceral adipose tissue, perivascular adipose tissue, and epicardial adipose tissue. Omentin enhances insulin-stimulated glucose uptake in adipocytes and is a link between obesity and Type 2 Diabetes. Omentin also functions as a vasodilator and plays a protective role during coronary atherosclerosis and hypertension.

Recombinant human Omentin is a non-glycosylated protein dimer, containing 313/626 amino acids and having a molecular mass of 35.0/70.0 kDa.

**Cat. No.:**  
RP1140AF

**Alternate Names:**  
Intelectin-1, ITLN-1

## AA Sequence:

MNQLSFLFL	IATTRGWSTD	EANTYFKEWT
CSSPSLPRS	CKEIKDECPS	AFDGLYFLRT
ENGVIYQFC	DMTSGGGGWT	LVASVHENDM
RGKCTVGDRW	SSQQGSKADY	PEGDGNWANY
NTFGSAEAAT	SDDYKNPGYY	DIQAKDLGIW
HVPNKSPMQH	WRNSSLLRYR	TDTGFLQTLG
HNLFGIYQKY	PVKYGEKGCW	TDNGPVIPVV
YDFGDAQKTA	SYSPYQGRE	FTAGFVQFRV
FNNERAANAL	CAGMRVTGCN	TEHHCIGGGG
YFPEASPQQC	GDFSGFDWSG	YGTHVGYSSS
REITEAAVLL	FYR	

## TECHNICAL INFO

**Source:**  
*E. coli*

**Physical Appearance:**  
Sterile Filtered white lyophilized (freeze-dried) powder.

**Formulation:**  
10 mM sodium phosphate and 5:1 mannitol to protein, pH 7.5

**Stability:**  
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**  
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity determined by:**

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

**Endotoxin Level:**  
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

**Animal Component-Free**  
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

