



# Recombinant Protein Technical Manual

## Recombinant Human Intelectin/ITLN1 Protein (His Tag)

RPES0862

### Product Data:

**Product SKU:** RPES0862

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q8WWA0

### Protein Information:

**Molecular Mass:** 32.7 kDa

**AP Molecular Mass:** 35 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 50mM Tris,100mMNaCl, 5mM GSH, 0.5mM GSSG,pH8.0 .

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Intelectin; ITLN; Endothelial lectin HL; Galactofuranose-binding lectin; Intestinal lactoferrin receptor; Omentin; INTL; ITLN; LFR

## Immunogen Information:

**Sequence:** Thr19-Ser298

## Background:

Intelectin(ITLN1) is a secreted protein and contains 1 fibrinogen C-terminal domain. Intelectin is a 40 kDa Ca-dependent galactofuranose-binding lectin that is not a C-type lectin. It is expressed on multiple cell types and appears to participate in insulin signaling and microbe recognition. The protein has no effect on basal glucose uptake but enhances insulin-stimulated glucose uptake in adipocytes. It increases AKT phosphorylation in the absence and presence of insulin and it may play a role in the defense system against microorganisms. It also may specifically recognize carbohydrate chains of pathogens and bacterial components containing galactofuranosyl residues, in a calcium-dependent manner.