

Product Specification Sheet

**RELM-beta/FIZZ2 Protein**

<b>Cat.</b> RELMB25-R-5	<b>Human</b> RELM-beta protein (carrier free)	<b>SIZE:</b> 5 ug
<b>Cat.</b> RELMB25-R-25	<b>Human</b> RELM-beta protein (carrier free)	<b>SIZE:</b> 25 ug

Resistance to insulin characterizes type 2 diabetes, the most common form of diabetes. There is a strong link between type 2 diabetes and obesity, as most patients tend to be obese. Thiozolidinediones (TZDs), a new class of anti-diabetic, enhances target-tissue sensitivity to insulin. A screen of genes down regulated by TZD in adipocyte led to the discovery of a new protein hormone called **resistin** (for resistance to insulin). Resistin, specifically produced and secreted by adipocyte, is present at elevated levels in the blood of obese animals, and is down regulated by fasting and anti-diabetic drugs. Antibody to resistin stimulated glucose uptake and improved insulin sensitivity in obese mice. Some other protein related to resistin has been called resistin-related molecules (**RELM-alpha and beta**). Resistin family of proteins was also identified as proteins (**FIZZ1-3**, for Found in Inflammatory zone) involved in allegory and inflammation.

**RELM-beta/FIZZ2** (prepeptides: mouse 105 aa; human 11 aa ~45-65% identity with FIZZ1 and 2) is highly related to resistin at the C-terminus region. Its expression is most abundant in colon (proximal and distal colon) but not in white adipose tissue. In mouse, RELM-beta is also detected at low levels in cecum and ileum. In *min* mouse (mouse model for human familial adenomatous polyposis), RELM-beta expression was markedly increased in tumors immediately adjacent to normal tissue.

**Source of Antigen and Antibodies**

Human RELM-beta was expressed in E. coli and purified to >98%. Purified protein is a disulfide linked homodimer of ~19 Kda consisting of two 89-aa chains.

**Purified human** RELM-beta (cat # RELMB25-R-5 & RELMB25-R-25) protein is also available in carrier free, and any additive free forms in 10 mM Citrate buffer, pH 3.0 (10 ug/vial). Reconstitute in appropriate buffer (100 ul of PBS or Tris, pH 7.5-8.0) and vortex at room temp. The proteins can be realiquoted and stored frozen at –20oC or below. This preparation is not sterile. It has very low endotoxin level (<0.1 ng/1 ug of protein). The biological activity of RELM-beta is under investigation. This preparation is suitable for ELISA or standards.

**Stability:** 6-12 months at –20oC or below.

**Shipping:** 4oC for solutions and room temp for powder.

\*This product is for in vitro research use only.

**Related material available from ADI**

Antibodies to Leptin, leptin receptor, Orexins, CART, UCPs, Adipsin, Acc1/2, FABP etc. Acrp30/AdipQ etc

**Western Blot recycling kit** (Use the same blot to probe with multiple resistin antibodies)

RELMB25-R-25

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