

Technical Information

Resistin

CE

Cat. No.: E50
Tests: 96
Method: **ELISA**
Range: 20 - 1000 pg/ml
Sensitivity: 12 pg/ml
Incubation time: 4 hours
Sample volume: 15 µl (dilute 1:21; recommended)
Sample type: Serum, plasma, cell culture medium, saliva, breast milk and urine.
Sample preparation: Haemolytic samples appear to show falsely high Resistin levels. Whole blood should be chilled as soon as possible following collection. Serum and plasma samples are stable for maximal 2 days at room temperature. Long-term storage at -20°C, stable for maximal 2 years. Maximum 3 freeze/thaw cycles.

Reference values: Women: 7.0 ng/ml +/- 2.5 SD (referred to BMI ~ 25 kg/m²)
Men: 6.0 ng/ml +/- 2.5 SD (referred to BMI ~ 25 kg/m²)

Species: Human

Intended use:

Resistin (FIZZ3) is a hormone influencing fat metabolism and inflammation processes. In humans, it is expressed in bone marrow and transported by macrophages into adipose tissue. Resistin stimulates pre-adipocyte proliferation and lipolysis of mature adipocytes probably by influencing MAPK signaling. With regard to the importance of Resistin in disorders of energy metabolism, a significant reduction could be shown in patients with anorexia nervosa. It has been demonstrated that Resistin enhances the expression of specific cell markers such as VACM-1 and ICAM-1 and thus may influence endothelial inflammatory processes, and thereby arteriosclerosis. Moreover, due to its association with Endothelin-1, Resistin also plays a role in cardiovascular diseases.

Resistin is relevant to medical conditions such as:

- Obesity
- Insulin resistance, diabetes
- Arteriosclerosis
- Inflammation
- Lipolysis

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