

# Technical Information

## Adiponectin high sensitive (TECO®) Total Human Adiponectin



Cat. No.: TE1013 (RUO: TE1014)  
 Tests: 96  
 Method: **ELISA**  
 Range: 1 - 100 ng/ml native Adiponectin  
 Sensitivity: < 0.6 ng/ml  
 Incubation time: 2 hours  
 Sample volume: 5 µl (dilute >1:300 serum and plasma).  
 For other biological fluids see protocol for dilutions  
 Sample type: Serum, heparin plasma, breast milk, urine, saliva, CSF, cell culture  
 Sample preparation: Blood collection - fasting is recommended.  
 Samples are stable for maximum 2 days at room temperature. Long-term storage stable for maximum 2 years at -20 °C.  
 Max. 5 freeze and thaw cycles.

Reference values:

	mg/l
Men Adult	8-10
Female Adult	10-12
Cut-off	10

Comprehensive clinical reference data related to age and gender are available for this test.

Species: Human

Intended use:

Adiponectin is a 30kDa protein and its percentage in serum proteins is 0.01 %. In vivo, it appears with different oligomers and it is mainly synthesized by adipocytes. Until now, IGF-1 is the only known natural inductor of synthesis.

Low Adiponectin levels are closely associated with insulin resistance and metabolic syndrome as well as an increased risk of type 2 diabetes mellitus and cardiovascular disease.

Today, Adiponectin is thought to act as an endogenous insulin sensitizer by decreasing excessive glucose levels without increasing insulin concentrations and by stimulating the burning of adipose tissue in muscle and liver.

Adiponectin is associated with glucose and lipid metabolism and is assumed to have direct antiatherogenic characteristics. Furthermore, it is involved in inflammatory processes.

Clinical significance:

- Obesity
- Arteriosclerosis
- Energy metabolism
- Coronary diseases
- Metabolic syndrome
- Polycystic ovary syndrome (PCOS)

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