Adiponectin (human), ELISA Kit

Rapid, highly sensitive ELISA kit to quantify adiponectin for metabolic, diabetes, and obesity research.

The Adiponectin (human), ELISA kit is a colorimetric, immunometric immunoassay kit with results in <3 hours.

Adiponectin, also referred to as Acrp30, AdipoQ and GBP-28, is a 244 amino acid protein, the product of the apM1 gene, which is physiologically active and specifically and highly expressed in adipose cells. The protein belongs to the soluble defence collagen superfamily; it has a collagen-like domain structurally homologous with collagen VIII and X and complement factor C1q-like globular domain. Adiponectin forms homotrimers, which are the building blocks for higher order complexes found circulating in serum. Together, these complexes make up approximately 0.01% of total serum protein. Adiponectin receptors AdipoR1 and AdipoR2 have been recently cloned; AdipoR1 is abundantly expressed in skeletal muscle, whereas AdipoR2 is predominantly expressed in the liver. Paradoxically, adipose tissue-expressed adiponectin levels are inversely related to the degree of adiposity. Adiponectin concentrations correlate negatively with glucose, insulin, triglyceride concentrations, liver fat content and body mass index and positively with high-density lipoprotein-cholesterol levels, hepatic insulin sensitivity and insulin-stimulated glucose disposal. Adiponectin has been shown to increase insulin sensitivity and decrease plasma glucose by increasing tissue fat oxidation.

Citations: 6 View Online »

- Rapid – results in just 3 hours from up to 38 samples in duplicate
- Quantitative – fully quantitative results surpass semi-quantitative Western blot analysis
- Sensitive – measure as little as 0.1 ng/ml of adiponectin

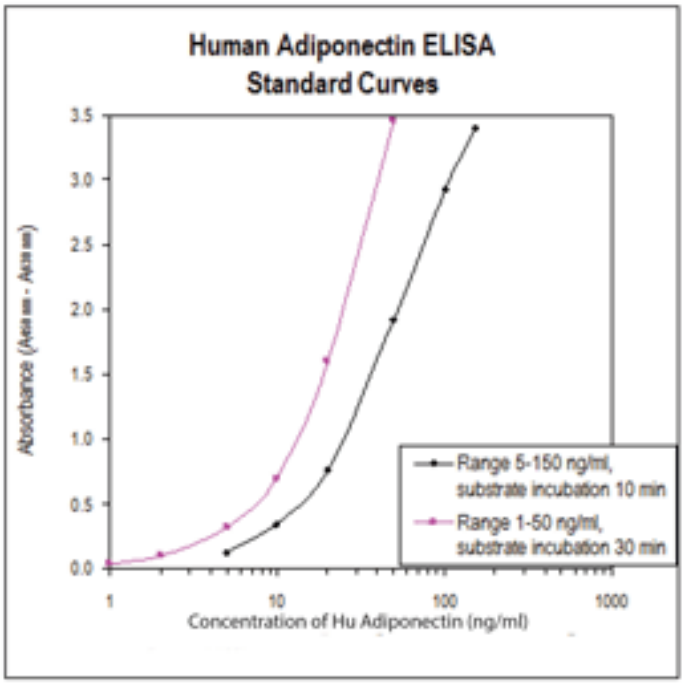
Ordering Information

Order Online »

ALX-850-3770	96 wells

Manuals, SDS & CofA

View Online »


Human Adiponectin ELISA
Standard Curves
Absorbance (A450nm - A630nm)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1
10
100
1000
Concentration of Hu Adiponectin (ng/ml)
Range 5-150 ng/ml, substrate incubation 10 min
Range 1-50 ng/ml, substrate incubation 30 min

Handling & Storage

Long Term Storage +4°C

Shipping Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name
ACRP30, ADIPOQ, GBP28, Adipocyte C1q and collagen domain-containing protein, Adipocyte complement-related 30 kDa protein, Gelatin-binding protein, ACDC, APM1

Application
Colorimetric detection, ELISA

Application Notes
For quantitative determination of human adiponectin in cerebrospinal fluid, plasma, serum, urine and (breast) milk.

Compatibility
This product is compatible with the **Absorbance 96 Plate Reader**.

Contents
Microtiter Plate, Conjugate, Standards, Quality Controls, Dilution Buffer Concentrate, Substrate Solution, Stop Solution, Wash Buffer Concentrate

Crossreactivity
No cross-reactivity has been observed for human leptin, leptin receptor and resistin at 100ng/ml. Species cross-reactivities includes cat, dog, hamster, monkey, and rat adiponectin.

Sensitivity
0.156ng/ml (CSF, urine); 0.47ng/ml (plasma, serum) (range 1 to 150ng/ml)

Species Reactivity
Human

UniProt ID
Q15848

Wavelength
450 nm

ENZO LIFE SCIENCES, Inc.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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