

ENERGY METABOLISM AND BODY WEIGHT REGULATION

Immunoassays



HUMAN CHEMERIN ELISA

Cat. No.: RD191136200R

RUO

Intended use

The RD191136200R Human Chemerin ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human chemerin in serum and plasma.

- The total assay time is less than 3.5 hours
- The kit measures chemerin in serum and plasma (EDTA, citrate, heparin)
- Assay format is 96 wells
- Standard is recombinant protein based
- Quality Controls are human serum based. No animal sera are used
- Components of the kit are provided ready to use, concentrated or lyophilized

Clinical application

- Metabolic syndrome
- Obesity
- Glucose and lipid homeostase

Test principle

In the BioVendor Human Chemerin ELISA, Standards, Quality Controls and samples are incubated in microtitration wells pre-coated with polyclonal anti-human chemerin antibody. After a 60 minute incubation followed by washing, biotin labelled polyclonal anti-human chemerin antibody is added and incubated with the captured chemerin for 60 minutes. After another washing, Streptavidin-HRP Conjugate is added. After 30 minutes incubation and the last washing step, the

remaining conjugate is allowed to react with the Substrate Solution (TMB). The reaction is stopped by addition of acidic solution and absorbance of the resulting yellow product is measured. The absorbance is proportional to the concentration of chemerin. A standard curve is constructed by plotting absorbance values versus chemerin concentrations of Standards, and concentrations of unknown samples are determined using this standard curve.

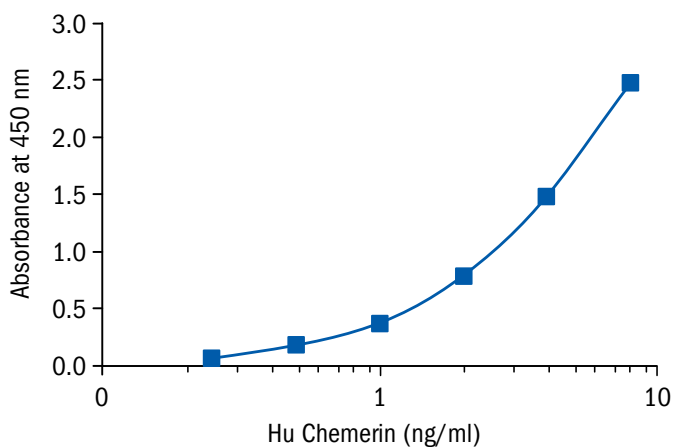
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Assay format	Sandwich ELISA, Biotin-labelled antibody, 96 wells/kit
Samples	Serum, Plasma-Citrate, Plasma-EDTA, Plasma-Heparin,
Controls	QC-Low, QC-High
Standards	0.25–8 ng/ml
Limit of detection	0.1 ng/ml
Cross-reactivity	Monkey, Rabbit

Summary of protocol

- Reconstitute QCs and Master Standard and prepare set of standards
- Dilute samples 100×
- Add 100 µl Standards, QCs and samples
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Biotin Labelled Antibody
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Streptavidin-HRP Conjugate
- Incubate at RT for 30 min/300 rpm
- Wash plate 3 times
- Add 100 µl Substrate Solution
- Incubate at RT for 15 min
- Add 100 µl Stop Solution
- Read absorbance and calculate results



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