ENERGY METABOLISM AND BODY WEIGHT REGULATION

Immunoassays

HUMAN TREFOIL FACTOR 1 ELISA

Cat. No.: RD191158100R **RUO**

Intended use

The RD191158100R Human Trefoil Factor 1 ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human Trefoil Factor 1.

- For research use only!
- The total assay time is less than 3 hours
- The kit measures total Trefoil Factor 1 in serum, plasma (EDTA, citrate, heparin) and bronchoalveolar lavage fluid
- Assay format is 96 wells
- Standard is recombinant protein
- Components of the kit are provided ready to use or lyophilized

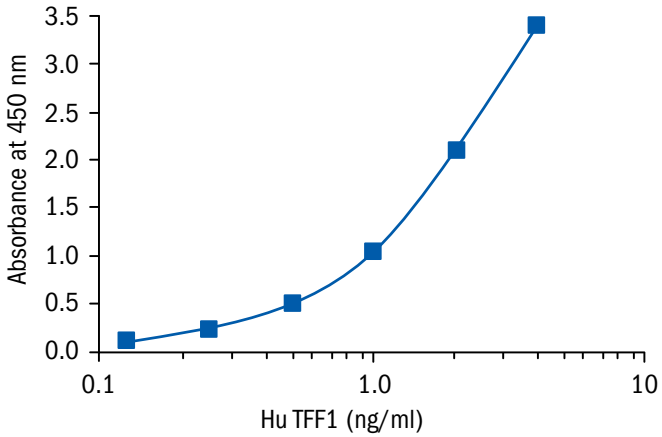
Clinical application

- Energy metabolism and body weight regulation
- Immune Response
- Infection and Inflammation
- Oncology
- Sepsis

Test principle

In the BioVendor Human Trefoil Factor 1 ELISA, standards and samples are incubated in microtitrate plate wells pre-coated with polyclonal anti-human Trefoil Factor 1 antibody. After 60 minutes incubation and washing, polyclonal anti-human Trefoil Factor 1 antibody, conjugated with horseradish peroxidase (HRP) is added to the wells and incubated for 60 minutes with captured Trefoil Factor 1. Following another washing step, the remaining HRP 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 Trefoil Factor 1. A standard curve is constructed by plotting absorbance values against concentrations of Trefoil Factor 1 standards, and concentrations of unknown samples are determined using this standard curve.

HUMAN TREFOIL FACTOR 1 ELISA CAT. NO.: RD191158100R	
Assay format	Sandwich ELISA, HRP-labelled antibody, 96 wells/kit
Samples	Bronchoalveolar lavage, Plasma-EDTA, Plasma-Citrate, Plasma-Heparin, Serum
Standards	0.125–4 ng/ml
Limit of detection	Limit of Detection (LOD) (defined as concentration of analyte giving absorbance higher than mean absorbance of blank* plus three standard deviations of the absorbance of blank: $A_{blank} + 3xSD_{blank}$) is calculated from the real Trefoil Factor 1 values in wells and is 0.019 ng/ml. *Dilution Buffer is pipetted into blank wells.



Summary of protocol

- Reconstitute Master Standard, prepare Set of Standards
- Dilute samples 5×
- Add 100 µl Standards and samples
- Incubate at RT for 1 hour/300 rpm
- Wash plate 5 times
- Add 100 µl Conjugate Solution
- Incubate at RT for 1 hour/300 rpm
- Wash plate 5 times
- Add 100 µl Substrate Solution
- Incubate at RT for 10 min
- Add 100 µl Stop Solution
- Read absorbance and calculate results

Related products

- Trefoil Factor 1 Human E. coli RD172158100
- Trefoil Factor 1 Human, Rabbit Polyclonal Antibody RD181158100
- Trefoil Factor 1 Human, Sheep Polyclonal Antibody RD184158100

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