

ENERGY METABOLISM AND BODY WEIGHT REGULATION

Immunoassays



HUMAN TREFOIL FACTOR 3 ELISA

Cat. No.: RD191160200R

RUO

Intended use

The RD191160200R Human Trefoil Factor 3 ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human total trefoil factor 3 protein (TFF3).

- It is intended for research use only
- The total assay time is less than 3.5 hours
- The kit measures total TFF3 in serum, plasma (EDTA, citrate, heparin), BALF, and urine samples
- Special Dilution Buffer (Cat. No.: C005114) needed for the dilution of urine and BALF samples is not included and can be obtained from BioVendor. For details please contact us at info@biovendor.com
- Assay format is 96 wells
- Quality Controls are human serum based
- Standard is recombinant protein based
- Components of the kit are provided ready to use, concentrated or lyophilized

Clinical application

- Neoplasmas
- Carcinomas
- Diabetes mellitus
- Kidney tubular injury

Immunoassays



Test principle

In the BioVendor Human Trefoil Factor 3 ELISA, standards, quality controls and samples are incubated in microplate wells pre-coated with polyclonal anti-human TFF3 antibody. After 60 minutes incubation and washing, biotin labelled polyclonal anti-human TFF3 antibody is added and incubated with captured TFF3 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 TFF3. A standard curve is constructed by plotting absorbance values against concentrations of standards, and concentrations of unknown samples are determined using this standard curve.

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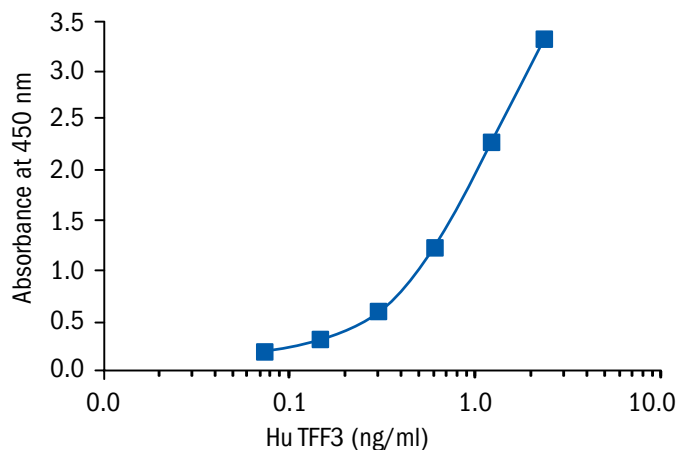
Assay format	Sandwich ELISA, Biotin-labelled antibody, 96 wells/kit
Samples	Bronchoalveolar lavage, Plasma, Serum, Urine
Controls	QC-Low, QC-High
Standards	0.075–2.4 ng/ml
Limit of detection	Limit of Detection (LOD) (defined as concentration of analyte giving absorbance higher than mean absorbance of blank* plus three standard deviations of the absorbance of blank: $A_{\text{blank}} + 3 \times SD_{\text{blank}}$) is calculated from the real human TFF3 values in wells and is 0.007 ng/ml. *Dilution Buffer is pipetted into blank wells.

Summary of protocol

- Reconstitute QCs and Master Standard and prepare set of standards
- Dilute samples 5×
- Add 100 μ l Standards, QCs and samples
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 μ l Biotin Labelled Antibody
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 μ l Streptavidin-HRP Conjugate
- Incubate at RT for 30 min/300 rpm
- Wash plate 3 times
- Add 100 μ l Substrate Solution
- Incubate at RT for 10 min
- Add 100 μ l Stop Solution
- Read absorbance and calculate results

Related products

- Trefoil Factor 3 Human E. coli RD172160100
- Trefoil Factor 3 Human, Rabbit Polyclonal Antibody RD181160100
- Trefoil Factor 3 Human, Sheep Polyclonal Antibody RD184160100



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