KIM-1 (human) ELISA kit

Ultra sensitive (1.279 pg/ml) ELISA kit, enabling reduced input sample and matrix interference, for the quantification of KIM-1, an early biomarker for kidney injury or disease.

The KIM-1 (human) ELISA kit is a complete, colorimetric, immunometric immunoassay kit for the quantitative determination of human KIM-1 in urine with results in <2 hours.

Chronic kidney disease (CKD) is a major public health problem, as one in nine American adults have CKD. There have been numerous studies focused on this disease over the years but there remains a need for improved therapeutics and identifying and/or predicting patient outcomes. One protein that has been identified as playing an important role in kidney disease is Kidney Injury Molecule-1 (KIM-1). KIM-1 is a 30KDa, type 1 membrane protein with an ectodomain that contains immunoglobulin and highly O-glycosylated mucin subdomains as well as multiple N-glycosylation sites. It is the most highly upregulated protein in the proximal tubule of the injured kidney. It exists in very low levels in normal kidneys but when upregulated during injury, it is detectable in urine in a wide variety of human diseases. KIM-1 is a potential biomarker for renal injury, which would suggest it has great importance in various kidney diseases and disorders, such as chronic kidney disease (as mentioned above), as well as acute tubular necrosis and acute kidney failure.

Citations: 26 View Online »

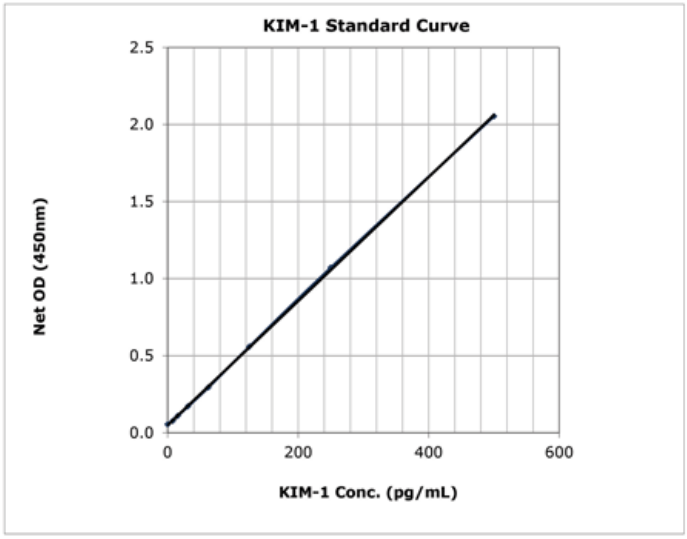
Ordering Information Order Online »

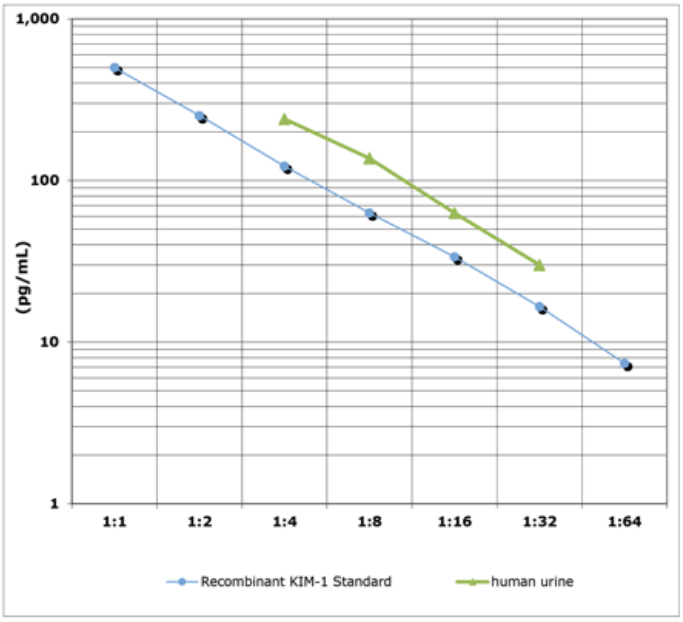
ADI-900-226-0001	96 wells

Manuals, SDS & CofA View Online »

- Sensitive – reliably measure as little as 1.279 pg/ml of KIM-1
- High Throughput – results in <2 hours from up to 38 samples in duplicate
- Specific – low cross-reactivity to similar proteins
- Quantitative – fully quantitative results for both normal and disease state samples that surpass semi-quantitative Western blot analysis


Enzo
Life Sciences


KIM-1 Standard Curve
Net OD (450nm)
2.5
2.0
1.5
1.0
0.5
0.0
0
200
400
600
KIM-1 Conc. (pg/mL)


1,000
100
10
1
(pg/mL)
1:1
1:2
1:4
1:8
1:16
1:32
1:64
Recombinant KIM-1 Standard
human urine

Handling & Storage

Long Term Storage +4°C

Shipping Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name

Kidney injury molecule-1, T-cell immunoglobulin and mucin domain-containing protein 1, TIMD-1, TIM-1, HAVCR1, Hepatitis A virus cellular receptor 1, T-cell immunoglobulin mucin receptor 1, CD365

Application

Colorimetric detection, ELISA

Application Notes

For the quantitative determination of human KIM-1 in urine.

Compatibility

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

Contents

Microtiter Plate, Assay Buffer, Standard, Antibody-conjugate, Streptavidin-HRP, TMB Substrate, Stop Solution, Wash Buffer Concentrate

Crossreactivity

No cross reactivity to similar molecules (< 0.02% TIM-3, TIM-4).

Sensitivity

1.279 pg/ml (range 7.813 – 500 pg/ml)

Species Reactivity

Human

Technical Info / Product Notes

This product is licensed from the General Hospital Corporation and is protected by US patents 6,664,385 B1, 7,041,290 B2 and 7,696,321.

UniProt ID

Q96D42

Wavelength

450 nm

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