

CATALOG# 80684

# RAT KIDNEY INJURY MOLECULE-1 ELISA KIT

## Catalog number

Rat Kidney Injury Molecule-1 (KIM-1) ELISA.....80684

## Intended use

A high quality enzyme immunoassay for the quantification of rat KIM-1 in serum, plasma, and urine.

## Test principle

Crystal Chem's Rat Kidney Injury Molecule-1 (KIM-1) ELISA kit is a sandwich ELISA. An unknown amount of KIM-1 present in the sample binds with antibodies bound to the surface of the microplate. After washing to remove unbound proteins, HRP labeled antibodies are added and form a complex on the surface. After another wash step, a substrate is added, and the concentration of KIM-1 is measured based color intensity.

## Specifications

<b>Sample Types</b>	Serum, Plasma and Urine
<b>Assay Time</b>	2 hours 50 minutes
<b>Range</b>	0.1 - 10 ng/mL
<b>Sample Size</b>	50 $\mu$ L
<b>Sensitivity</b>	0.039 ng/mL
<b>Precision</b>	CV < 10%

## Highlights

- ✓ Kits use only 50  $\mu$ L sample
- ✓ Very sensitive (0.04 ng/mL)
- ✓ Optimized for rat samples
- ✓ Complete assay in < 3 hours

## Summary of protocol

```

graph TD
    A[Add 100  $\mu$ L diluted sample or standard] --> B[Incubate 2 hours at room temperature]
    B --> C[Wash plate]
    C --> D[Add 100  $\mu$ L detection antibody solution]
    D --> E[Incubate 20 minutes at room temperature]
    E --> F[Wash plate]
    F --> G[Add 100  $\mu$ L of HRP solution]
    G --> H[Incubate 20 minutes at room temperature]
    H --> I[Wash plate]
    I --> J[Add 100  $\mu$ L substrate solution]
    J --> K[Incubate for 20 minutes in the dark]
    K --> L[Add 100  $\mu$ L stop solution. Measure OD at 450/630 nm]
  
```

