

CATALOG# 80573

# RAT IGF-1 ELISA KIT

## Catalog number

Rat IGF-1 ELISA Kit .....80573

## Intended use

A high quality enzymatic assay for the quantification of rat IGF-I in rat serum, plasma and cell culture media.

## Test principle

Crystal Chem's Rat IGF-1 ELISA kit is an ELISA sandwich assay for ratIGF-1. It utilizes two specific and high affinity antibodies for this protein. IGF-1 is first dissociated from the IGF-BPs via an acidic buffer. After neutralization of the samples, the excess IGF-II occupies the IGF-binding sites of the binding proteins, leaving IGF-I free to be measured. The IGF-1 in the sample binds to the first antibody coated on the microtiter plate. Next, the biotinylated and streptavidin conjugated second specific antibody binds in turn to the immobilized IGF-1. In the closing substrate reaction, the IGF-1 levels of the samples can be measured by color intensity.

## Specifications

<b>Sample Types</b>	Serum, Plasma, and Cell Culture
<b>Assay Time</b>	2 hours
<b>Range</b>	0.5 - 18 ng/mL
<b>Sample Size</b>	5 µL
<b>Precision</b>	CV < 10 %
<b>Sensitivity</b>	0.029 ng/mL

## Highlights

- ✓ Kits use only 5 µL sample
- ✓ Highly specific to IGF-1
- ✓ High sensitivity (0.029 ng/mL)
- ✓ Low cost per sample

## Summary of protocol

