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Datasheet for ABIN4987024

CXCL2 ELISA Kit

1 Image

Overview

Quantity: 96 tests

Target: CXCL2

Reactivity: Mouse

Method Type: Sandwich ELISA

Detection Range: 0.02-1.0 ng/mL

Minimum Detection Limit: 0.02 ng/mL

Application: ELISA

Product Details

Sample Type: Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (citrate), Plasma (EDTA)

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: Natural and recombinant Mouse MIP-2 Ligand

Sensitivity: 7 pg/mL

Material not included:

- Microplate reader.
- Pipettes and pipette tips.
- EP tube Deionized or distilled water.

Target Details

Target: CXCL2

Target Details

Alternative Name: MIP-2 ([CXCL2 Products](#))

Background: Mouse macrophage inflammatory protein-2 (MIP-2), also known as CXCL2, was originally identified as a heparin-binding protein secreted by an LPS-stimulated mouse macrophage cell line (1). A cDNA clone encoding the protein was isolated from this cell line and characterized (2). Based on its protein and DNA sequences, mouse MIP-2 was classified as a member of the alpha (CXC) chemokine family of inflammatory and immunoregulatory cytokines (3). Mouse MIP-2 cDNA encodes a 100 amino acid residue precursor protein from which the amino-terminal 27 amino acid residues are cleaved to generate the mature mouse MIP-2. The protein sequence of mouse MIP-2 shows approximately 63 % identity to that of mouse KC, another mouse alpha chemokine. Mouse MIP-2 is also 60 % identical to human GRO β and GRO γ (2). Based on these protein sequence similarities, it is likely that mouse KC and MIP-2 are homologs of human GRO α , β and γ chemokines. Since chemokines with protein sequence homology to human IL-8 have not been identified in mice, it has been suggested that the mouse KC and MIP-2 are functional homologs of human IL-8 in mice (3, 4). A putative mouse homolog of the human IL-8 receptor beta (IL-8 R β) has also been cloned. This receptor shows 71 % identity to human IL-8 R β and 68 % identity to human IL-8 R α . Both mouse KC and MIP-2 bind mouse IL-8 R β with high affinity (5). Like human IL-8, mouse MIP-2 exhibits potent neutrophil chemotactic activity and may be a key mediator of neutrophil recruitment in response to tissue injury and infection (3, 4). Increased MIP-2 expression has been found to be associated with neutrophil influx in various inflammatory conditions (6 - 10).

Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Application Notes: Detection Wavelength: 450 nm

Sample Volume: 20 μ L

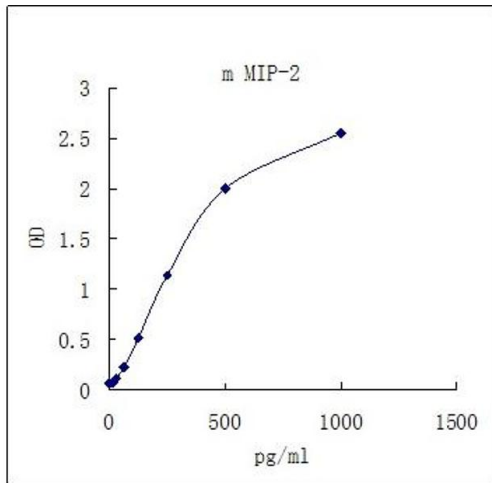
Assay Time: 3 h

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage: 4 °C



ELISA

Image 1.