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Datasheet for ABIN6720052
IL-37 ELISA Kit

Overview

Quantity:	1 kit
Target:	IL-37 (IL37)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: FIL1, FIL1 zeta, FIL1(ZETA), FIL1Z, IL 1 zeta, IL 1F7, IL 1H4, IL 1RP1, IL 1X, IL 1X protein, IL-1 zeta, IL-1F7, IL-1H, IL-1H4, IL-1RP1, IL-1X, IL-37, IL1F7, IL1F7_HUMAN, IL1H4, IL1RP1, Interleukin 1 family member 7, interleukin 1 family member 7 (zeta), Interleukin 1 homolog 4, Interleukin 1 related protein, Interleukin 1 superfamily z, Interleukin 1 zeta, Interleukin 37, Interleukin-1 family member 7, Interleukin-1 homolog 4, Interleukin-1 zeta, Interleukin-1-related protein, Interleukin-23</p> <p>Background: Interleukin 37(IL-37) also named IL1F7, is a protein that in humans is encoded by the IL1F7 gene. The protein encoded by this gene is a member of the interleukin 1 cytokine</p>

Product Details

family. And it is mapped to 2q13. In vitro expression analysis showed that IL-37 was a secretory protein. And IL-37 could play an important role in the link between innate and adaptive immunity and may be useful for tumor immunotherapy. Meanwhile, IL-37 inhibits the production of inflammatory cytokines in peripheral blood mononuclear cells of patients with systemic lupus erythematosus. In addition, IL-37 can emerged as a dual-function cytokine with intra- and extracellular properties for suppressing innate inflammation. Furthermore, IL-37 is a new anti-inflammatory cytokine that plays an important role in protecting against tissue injury during infections via limiting immune and inflammatory reactions.

Gene Name: IL37

Production: Natural and recombinant human IL-37. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: V46-D218

Target Details

Target: IL-37 (IL37)

Alternative Name: IL-37 - IL1F7 ([IL37 Products](#))

Gene ID: 27178

NCBI Accession: [NP_055254](#)

UniProt: [Q9NZH6](#)

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.3pg/mL, 15.6pg/mL human IL-37 standard solutions into the pre-coated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each human IL-37 standard solution and each sample is measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 15.6pg/mL-1000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Application Details

Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.