A Reliable Research Partner in Life Science and Medicine

Recombinant Mouse Interleukin-17/IL-17 Protein

Catalog Number: PKSM040953

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Species Mouse

Source E.coli-derived Mouse Interleukin-17;IL-17 protein Thr 22-Ala158, with an C-terminal

His

Calculated MW15.9 kDaObserved MW17 kDaAccessionQ62386

Bio-activity Measure by its ability to induce IL-6 secretion in 3T3 cells. The ED_{50} for this effect is

<1 ng/mL. The specific activity of recombinant mouse IL-17A is $> 1 \times 10^6$ IU/mg.

Properties

Purity > 98 % as determined by reducing SDS-PAGE.

Endotoxin < 0.1 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 20 mM sodium citrate, 0.2 M NaCl, pH 4.5.

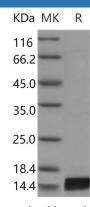
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 98 % as determined by reducing SDS-PAGE.

Background

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Elabscience®

Elabscience Biotechnology Co., Ltd.

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IL17, also known as IL17a, is a cytokine belongs to the IL-17 family. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. The IL-17 family of cytokines includes six members, IL-17/IL-17A, IL-17B, IL-17C, IL-17D, IL-17E/IL-25, and IL-17F, which are produced by multiple cell types. IL-17 regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.