A Reliable Research Partner in Life Science and Medicine

Recombinant Mouse Interleukin-23/IL-23 Protein

Catalog Number: PKSM041087

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

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Species Mouse

Source HEK293 Cells-derived Mouse Interleukin-23/IL-23 protein Val22-Ala196&Met23-

Ser335

 Calculated MW
 19.7&35.8 kDa

 Observed MW
 18&40-55 kDa

 Accession
 O9EQ14&P43432

Bio-activity Measured by its ability to induce STAT reporter activity in 293F human embryonic

kidney cells. The ED₅₀ for this effect is 501.08 ng/ml.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 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 a 0.2 µm filtered solution of PBS, pH 7.4.

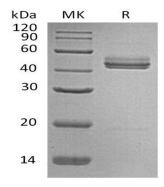
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

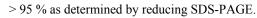
before lyophilization.

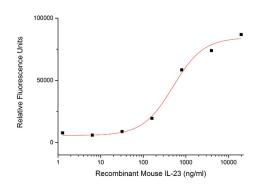
Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data







Measured by its ability to induce STAT reporter activity in 293F human embryonic kidney cells. The ED50 for this effect is 501.08 ng/ml.

Background

Elabscience®

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Interleukin 23 (IL-23) is a heterodimeric cytokine composed of two disulfide-linked subunits, a p19 subunit that is unique to IL-23, and a p40 subunit that is shared with IL-12. The p19 subunit has homology to the p35 subunit of IL-12, as well as to other single chain cytokines such as IL-6 and IL-11. The p40 subunit is homologous to the extracellular domains of the hematopoietic cytokine receptors. Although p19 is expressed by activated macrophages, dendritic cells, T cells, and endothelial cells, only activated macrophages and dendritic cells express p40 concurrently to produce IL-23. IL-23 has biological activities that are similar to, but distinct from IL-12. Both IL-12 and IL-23 induce proliferation and IFN-gamma production by human T cells. While IL-12 acts on both naive and memory human T cells, the effects of IL-23 is restricted to memory T cells.