



Recombinant Protein Technical Manual

Recombinant Mouse Interleukin-23/IL-23 Protein

RPES1844

Product Data:

Product SKU: RPES1844

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q9EQ14&P43432

Protein Information:

Molecular Mass: 19.7&35.8 kDa

AP Molecular Mass: 40-55 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: SGRF;IL-23p19;CLMF p40;IL2 subunit p40;NKSF2

Immunogen Information:

Sequence: Val22-Ala196&Met23-Ser335

Background:

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 IL2. The p19 subunit has homology to the p35 subunit of IL2, as well as to other single chain cytokines such as IL-6 and IL1. 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 IL2. Both IL2 and IL-23 induce proliferation and IFN-gamma production by human T cells. While IL2 acts on both naive and memory human T cells, the effects of IL-23 is restricted to memory T cells.