Recombinant Mouse IL-23/IL-12B&IL-23A Protein



RPCB1900

Product Information

Product SKU: RPCB1900 **Gene ID**: 16160&83430 **Size**: 10μg

Tag: N-His(IL-23a)&No **Reactivity**: Mouse

tag(IL-12b)

Additional Information

Expression Host: HEK293 cells **Swissprot**: P43432 & Q9EQ14

Purity: -

Protein Information

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 IL-12 (1-5). 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. Mouse p19 cDNA encodes a 196 amino acid residue (aa) precursor protein with a putative 19 aa signal peptide and 177 aa mature protein. Human and mouse p19 share 70% aa sequence identity. 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. The functional IL-23 receptor complex consists of two receptor subunits, the IL-12 receptor beta 1 subunit (IL-12 R beta 1) and the IL-23-specific receptor subunit (IL-23 R). 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 na?ve and memory human Thbsp;cells, the effects of IL-23 is restricted to memory Tcells. In mouse, IL-23 but not IL-12, has also been shown to induce memory T cells to secret IL-17, a potent proinflammatory cytokine. IL-12 and IL-23 can induce IL-12 production from mouse splenic DC of both the CD8- and CD8+ subtypes, however

only IL-23 can act directly on CD8+ DC to mediate immunogenic presentation of poorly immunogenic tumor/self peptide.

Protein Description: High quality, high purity and low endotoxin recombinant Recombinant Mouse IL-

23/IL-12B&IL-23A Protein, tested reactivity in HEK293 cells and has been validated

in SDS-PAGE.100% guaranteed.

Endotoxin: $< 0.1 EU/\mu g$

Formulation: Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Storage: Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the

date of receipt.After reconstitution, the protein solution is stable at -20°C for 3

months, at 2-8°C for up to 1 week.