Active Recombinant Bovine Interleukin 23, Alpha Subunit P19

Cat. No. IL23A-239B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine IL-23 alpha subunit p19 was expressed in *Yeast.* MW= 19.0 kDa (171 aa).
Species	Bovine
Source	Yeast
Description	Interleukin-23 subunit alpha is a protein that in humans is encoded by the IL23A gene. This gene encodes the p19 subunit of the heterodimeric cytokine interleukin 23 (IL23). IL23 is composed of this protein and the p40 subunit of interleukin 12 (IL12B). The receptor of IL23 is formed by the beta 1 subunit of IL12 (IL12RB1) and an IL23 specific subunit, IL23R. Both IL23 and IL12 can activate the transcription activator STAT4, and stimulate the production of interferon-gamma (IFNG). In contrast to IL12, which acts mainly on naive CD4(+) T cells, IL23 preferentially acts on memory CD4(+) T cells.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.
Amino Acid Sequence	RAVSEDSSPA WTRGQQLSQQ LCMLAWSAHL PMGHMDLPRE EGGDKTTDDV PRIQCEDGCD PQGLRDNSQS CLQRIHRGLV FYEKLLGSDI FTGEPSLLPN

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	GPVDQLHASI LGLRELLQPK GHHWETEQTP SPIPSQPWQR LLLRLKILRS LQAFVAVAAR VFAHGAATLS P.
Bioactivity	The biological activity of recombinant bovine IL-23, alpha subunit p19 has not been tested. The active form of IL-23 is a dimer (p19/p40).
Stability And Storage	Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	IL23A interleukin 23, alpha subunit p19 [Bos taurus]
Synonyms	interleukin 23, alpha subunit p19; IL23A; IL-23
Gene ID	511022
mRNA Refseq	XM_588269.4
Protein Refseq	XP_588269.2
Chromosome Location	5
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA