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Product datasheet for TP723849

Il23a (NM_031252) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse interleukin 23, alpha subunit p19 (Il23a)
Species:	Mouse
Expression Host:	Sf9
Expression cDNA Clone or AA Sequence:	Mouse IL-23 consists of two subunits: P19, the region of Met1-Ala196 from gene Accession# NM_031252, and P40, the region of Met1-Ser 335 from gene Accession# NM_008352, linked via a disulphide bond:
Tag:	Tag Free
Predicted MW:	55.4 kDa
Concentration:	10 µg sizes are bottled at 100 µg/ml
Purity:	Purity is >95%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS
Bioactivity:	The ED50 is 0.5 - 0.8 ng/ml, corresponding to a specific activity of 1.25-2.0 x 10^6 units/mg, determined by mouse splenocytes IL-17A secretion induced by mIL-23 in a dose dependent manner. Under this assay, the bioactivity is equivalent
Endotoxin:	Less than 0.01 ng per µg protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_112542
Locus ID:	83430
UniProt ID:	Q9EQ14
RefSeq Size:	1359
Cytogenetics:	10 D3
RefSeq ORF:	588

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Synonyms: IL-23; p19

Summary: Associates with IL12B to form the IL-23 interleukin, a heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak-Stat signaling cascade, stimulates memory rather than naive T-cells and promotes production of proinflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis.[UniProtKB/Swiss-Prot Function]

Product images: