

Product datasheet for **TP723732**

IL23 (p19+p40) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interleukin 23 (p19+p40).
Species:	Human
Expression Host:	Sf9
Expression cDNA Clone or AA Sequence:	Human IL-23 consists of two subunits linked via a disulfide bond: P19, the region of Ala21-Pro189) from Accession# NP_057668, and P40, the region of Ile 23-Ser 328) from Accession# NP_002178.2
Tag:	Tag Free
Predicted MW:	53.3 kDa
Concentration:	lot specific
Purity:	>95%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS
Bioactivity:	The ED50 is 0.4 - 2.0 ng/ml, corresponding to a specific activity of 0.5 - 2.50 x 10 ⁶ units/mg determined by mouse splenocyte IL-17A secretion, which is induced by hIL-23 in a dose dependent manner.
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_057668
Locus ID:	51561
UniProt ID:	Q9NPF7
RefSeq Size:	1049
Cytogenetics:	12q13.3
RefSeq ORF:	567



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Synonyms: IL-23; IL-23A; IL23P19; P19; SGRF

Summary: This gene encodes a 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway