

Recombinant Sheep IL12B Protein (23-327 aa), His-tagged

Cat. No. IL12B-576S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Sheep IL12B Protein (23-327 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Sheep
Source	E.coli
ProteinLength	23-327 aa
Description	Cytokine that can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine-activated killer cells, and stimulate the production of IFN-gamma by resting PBMC. Associates with IL23A 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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	38.5 kDa

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AA Sequence

IWELEKNVYVVVELDWYPNAPGETVVLTCDTPEEDGITWTS DQSSEVLGSGKTLTIQV
 KEFGDAGQYTCHKGGVLSRSLLLHKKEDGIWSTDILKDQKEPKAKSFLKCEAKDY
 SGHFTCSWLTAISTNLKFSVKSSRGSSDPRGVT CGAASLSAEKVSMDHREYNKYTV
 ECQEGSACPAAEESLPIEVVMEAVHKLKYENYTS SFFIRDIIKPDPPKNLQLRPLKNS
 RQVEVSWEYPDTWSTPHSYFSLTFCVQVQGKNKREKKLFTDQTS AKVTCHKDANIR
 VQARDRYSSFWSEWASVSCS

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name IL12B interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40) [*Ovis aries*]

Official Symbol IL12B

Synonyms IL12B; IL-12B; CLMF p40; IL-12 subunit p40; IL-12;

Gene ID 443472

mRNA Refseq NM_001009438

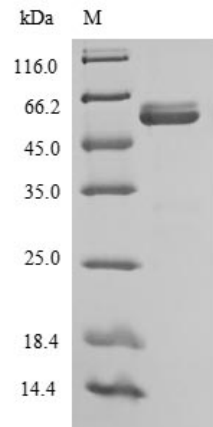
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Protein Refseq NP_001009438

UniProt ID P68220



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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