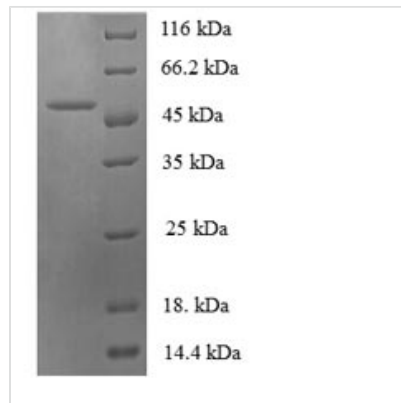




Recombinant Sheep Interleukin-6 (IL6)

Product Code	CSB-EP011664SH
Relevance	Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells Involved in lymphocyte and monocyte differentiation. Acts on B-cells, T-cells, hepatocytes, hatopoietic progenitor cells and cells of the CNS. Required for the generation of T(H)17 cells. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation .
Abbreviation	Recombinant Sheep IL6 protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P29455
Product Type	Recombinant Protein
Immunogen Species	Ovis aries (Sheep)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	GPLGEDFKNDTTPSRLLLTTPTEKTEALIKHIVDKISAIRKEICEKNDECENSKETL AENKLKLPKMEEKDGCQSGFNQAICLIKTTAGLLEYQIYLDLQNEFEGNQET VMELQSSIRTLIQLKEKIAGLITTPATHTDMLEKMQSSNEWVKNKVIILRSLEN FLQFSLRAIRMK
Source	E.coli
Target Names	IL6
Expression Region	30-208aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	47.5kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

The region for expressing recombinant Sheep IL6 contains amino acids 30-208. The calculated molecular weight for this IL6 protein is 47.5 kDa. Expression of this IL6 protein is conducted in e.coli. The IL6 gene fragment has been modified by fusing the N-terminal GST tag, providing convenience in detecting and purifying the recombinant IL6 protein during the following stages.

Sheep interleukin-6 (IL6), similar to its mammalian counterparts, is a multifunctional cytokine with diverse roles in immune regulation and inflammation. Produced by various cell types, including immune cells and fibroblasts, sheep IL6 is involved in mediating immune responses, hematopoiesis, and acute-phase reactions. It plays a crucial role in orchestrating the body's defense mechanisms during infections and tissue injuries. IL6 is also implicated in the regulation of metabolic processes and has been studied in the context of various diseases. Understanding the functions of sheep IL6 contributes to broader insights into the immune system of sheep and potential applications in veterinary medicine and livestock health management.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.