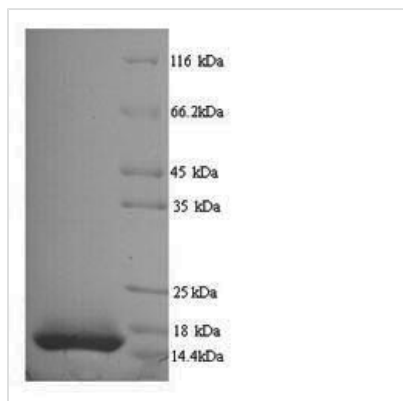




Recombinant Macaca mulatta Interleukin-15 (IL15)

Product Code	CSB-YP011593MOW
Relevance	Cytokine that stimulates the proliferation of T-lymphocytes. Stimulation by IL-15 requires interaction of IL-15 with components of IL-2R, including IL-2R beta and probably IL-2R gamma but not IL-2R alpha.
Abbreviation	Recombinant Rhesus macaque IL15 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.	P48092
Product Type	Recombinant Protein
Immunogen Species	Macaca mulatta (Rhesus macaque)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCCKVTAMKCFLLLELQVISHESG DTDIHDTVENLILANNILSSNGNITESGCKECEELEEKNIKEFLQSFVHIVQMFIN TS
Research Area	Others
Source	Yeast
Target Names	IL15
Protein Names	Recommended name: Interleukin-15 Short name= IL-15
Expression Region	49-162aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	14.9kDa
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 production of this Recombinant *Macaca mulatta* IL15 protein required the insertion of a DNA fragment (IL15, 49-162aa) into an expression vector and the transferral of this vector into Yeast cells (the step of transformation). The cells were then cultured and induced to express the IL15 protein. This recombinant protein was fused with N-terminal 6xHis tag. Its purity is 90%+ determined by SDS-PAGE.

IL15 is a gene encoding a protein named interleukin-15 (also known as IL-15) in *macaca mulatta* (rhesus macaque). This gene has many orthologs in multiple mammals, such as human, house mouse, pig, cattle, etc. IL-15 protein is a cytokine with structural similarity to IL-2 that regulates T and natural killer cell activation and proliferation. Like IL-2, IL-15 binds to and functions by a complex composed of IL-2/IL-15 receptor beta chain (CD122) and the common gamma chain (gamma-C, CD132).

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.