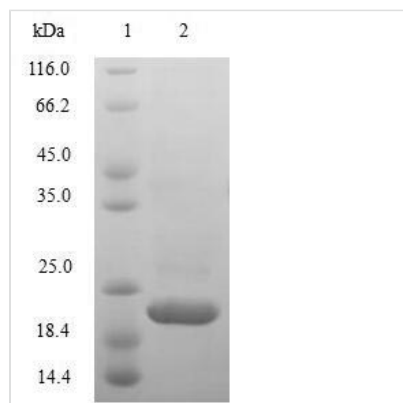




Recombinant *Macaca mulatta* Interleukin-10 (IL10)

Product Code	CSB-MP011580MOW
Relevance	Inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by helper T-cells.
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.	P51496
Product Type	Recombinant Protein
Immunogen Species	<i>Macaca mulatta</i> (Rhesus macaque)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	SPGQGTQSENSCTRFPGNLPHMLRDLRDAFSRVKTFQMKDQLDNILLKESLL EDFKGYLGQCQALSEMIQFYLEEVMPPQAENHDPDIKEHVNSLGENLKLRLRLR RCHRFLPCENKSKAVEQVKNFAFSKLQEKGVYKAMSEFDIFINYIEAYMTMKIQN
Lead Time	3-7 business days
Research Area	Immunology
Source	Mammalian cell
Gene Names	IL10
Protein Names	Cytokine synthesis inhibitory factor
Expression Region	19-178aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	20.7kDa
Protein Description	Full Length of Mature Protein

Image



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



Description

This Recombinant *Macaca mulatta* IL10 protein was made through genetic engineering. By putting the IL10 gene into the genetic material of Mammalian cell, the Mammalian cell could be used as factories or producers to make the desired IL10 protein for research uses. The expression region of this protein is at 19-178aa. C-terminal 10xHis tag was used in the expression process. The purity is 85%+ determined by SDS-PAGE.

IL-10 is the founding member of a family of cytokines. The involvement of IL-10 in many disease states has been demonstrated, both in animal models and in humans with mutations in the IL-10/IL-10R axis. IL-10 was discovered 30 yr ago as a secreted cytokine synthesis inhibitory factor, produced by T helper (Th) 2 cell clones shown to inhibit cytokine production by Th1 cells. IL10-mediated inhibition of IFN- γ secretion by Th1 cells was demonstrated to occur via its action on the APC function of macrophages and by its inhibition of cytokine production by activated macrophages and dendritic cells. Additionally, IL-10 inhibited the killing of intracellular pathogens. The role of IL-10 clearly exceeds the regulation of intestinal inflammation, as a function for this molecule has been also described in several other settings, from inflammatory or neurodegenerative diseases to infection or cancer. In summary, IL-10 has emerged as a major suppressor of the immune response and a key player in human disease, and is thus an attractive therapeutic target.

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.