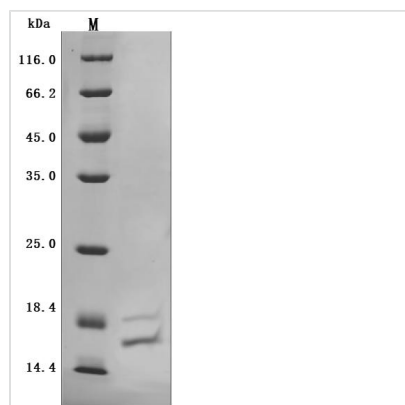


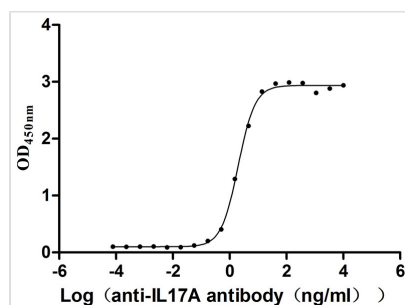


Recombinant Human Interleukin-17A (IL17A) (T26A) (Active)

Product Code	CSB-BP624104HU(M)
Abbreviation	Recombinant Human IL17A protein (T26A) (Active)
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.	Q16552
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human IL17A at 2 µg/mL can bind Anti-IL17A recombinant antibody (CSB-RA624104MA1HU), the EC50 is 1.818-2.170 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	GIAIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWNL HRNEDPERYPSPVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHC PNSFRLEKILVSVGCTCVTPIVHHVA
Source	Baculovirus
Target Names	IL17A
Expression Region	24-155aa(T26A)
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	15.9 kDa
Protein Length	Full Length of Mature Protein
Image	



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



Activity
Measured by its binding ability in a functional ELISA. Immobilized Human IL17A at 2 µg/ml can bind Anti-IL17A recombinant antibody (CSB-RA624104MA1HU), the EC₅₀ is 1.818-2.170 ng/mL.

Description

CUSABIO's product CSB-BP624104HU(M) is a recombinant human IL17A protein generated in the Baculovirus by the co-expression of human IL17A 24-155aa (T26A) with an N-terminal 6xHis-tag. The DNA fragment coding for the human IL17A 24-155aa has a mutation Thr 26 Ala. Its purity is greater than 95% determined by SDS-PAGE. The endotoxin of this protein is less than 1.0 EU/µg protein (measured by the LAL method). This recombinant human IL17A (T26A) protein has been validated to be biologically active through its interaction with an anti-IL17A recombinant antibody (CSB-RA624104MA1HU). The EC₅₀ for this effect is 1.818-2.170 ng/mL.

IL17A can be produced by multiple cells but mainly by Th17. IL17A mainly mediates neutrophil-induced inflammatory response and is closely related to rheumatoid arthritis, asthma, multiple sclerosis, psoriasis, COPD, pulmonary fibrosis, hepatocirrhosis, and graft rejection. IL17A regulates the activities of NF-κB and MAPKs. It can stimulate the expression of IL6 and PTGS2/COX-2 and enhance the production of nitric oxide (NO). IL-17 has a powerful role in recruiting and activating neutrophils. In vitro and in vivo studies have found that IL17A can promote the release of cytokines such as IL-8 and G-CSF from airway epithelial cells or fibroblasts, and indirectly activate neutrophil activity after activating elastin and myeloid peroxidase. Further studies revealed that IL17A recruits neutrophils by inducing neutrophil mobility factors such as IL-6 and MIP-2.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

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.