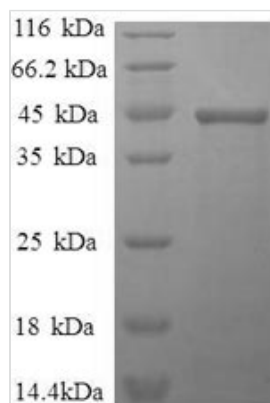




Recombinant Human Interleukin-1 beta (IL1B)

Product Code	CSB-EP011614HUe0
Relevance	Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.
Abbreviation	Recombinant Human IL1B 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.	P01584
Alias	Catabolin
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	APVRSLNCTLRDSQQKSLVMSGPYELKALHLQGQDMEQQVVFMSFVQGEE SNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFNKIEI NNKLEFESAQFPNWIYSTSQAENMPVFLGGTKGGQDITDFTMQFVSS
Source	E.coli
Target Names	IL1B
Expression Region	117-269
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	44.4kDa
Protein Length	Full Length of Mature Protein

Image



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



Description

Inserting the gene encoding the Human IL1B protein (117-269aa) into a plasmid vector results in the creation of recombinant plasmid, which is introduced into e.coli cells. e.coli cells that can survive in the presence of a specific antibiotic are selected, indicating successful uptake of the recombinant plasmid. The e.coli cells containing the recombinant plasmid are cultured under conditions promoting the expression of the gene of interest. A N-terminal GST tag is linked to the protein. After expression, affinity purification is used to isolate and purify the recombinant Human IL1B protein from the cell lysate. Denaturing SDS-PAGE is then applied to resolve the resulting recombinant Human IL1B protein, revealing a purity level exceeding 90%.

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.