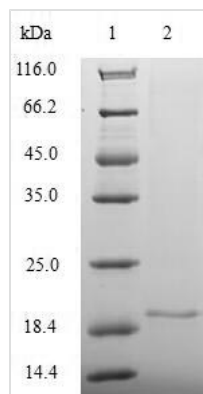




Recombinant Human Proliferation marker protein Ki-67 (MKI67), partial

Product Code	CSB-EP014597HU
Relevance	Thought to be required for maintaining cell proliferation.
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.	P46013
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	NEKKPMKTSPEMDIQNPDDGARKPIPRDKVTENKRCLRSARQNESSQPKVAE ESGGQKSAKVLNQKQKGEAGNSDSMCLRSRKTQSQPAASTLESKSVQRV TRSVKRCANPKKAEDNVCVKKIRTRSHRDESDI
Lead Time	3-7 business days
Research Area	Others
Source	E.coli
Gene Names	MKI67
Protein Names	Recommended name: Antigen KI-67
Expression Region	3120-3256aa
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	19.4 kDa
Protein Description	Partial

Image



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



Description

Amino acids 3120-3256 form the expressed segment for recombinant Human MKI67. The calculated molecular weight for this MKI67 protein is 19.4 kDa. The MKI67 protein was expressed in e.coli. The MKI67 gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant MKI67 protein during the following stages.

The human proliferation marker protein Ki-67, encoded by the MKI67 gene, is a widely utilized marker for cellular proliferation. Ki-67 is present during all active phases of the cell cycle (G1, S, G2, and mitosis) but absent in the resting phase (G0). It serves as a nuclear marker for assessing and quantifying the proliferative activity of cells, playing a crucial role in cancer diagnosis and prognosis. Researchers often employ Ki-67 immunohistochemistry to evaluate the growth fraction of tumors and determine their aggressiveness. Beyond cancer research, Ki-67 is also explored in studies related to cell cycle regulation, apoptosis, and various physiological and pathological processes associated with cell proliferation.

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.