





Recombinant Human Polycomb complex protein BMI-1 (BMI1), partial

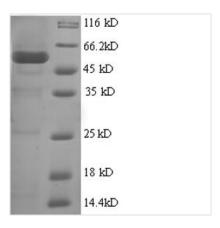
Product Code	CSB-EP002726HU1
Relevance	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin rodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. In the PRC1 complex, it is required to stimulate the E3 ubiquitin-protein ligase activity of RNF2/RING2.
Abbreviation	Recombinant Human BMI1 protein, partial
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.	P35226
Alias	Polycomb group RING finger protein 4RING finger protein 51
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MHRTTRIKITELNPHLMCVLCGGYFIDATTIIECLHSFCKTCIVRYLETSKYCPIC DVQVHKTRPLLNIRSDKTLQDIVYKLVPGLFKNEMKRRRDFYAAHPSADAANG SNEDRGEVADEDKRIITDDEIISLSIEFFDQNRLDRKVNKDKEKSKEEVNDKRYL RCPAAMTVMHLRKFLRSKMDIPNTFQIDVMYEEEPLKDYYTLMDIAYIYTWRR NGPLPLKYRVRPTCKRMKISHQRDGLTNAGELE
Research Area	Transcription
Source	E.coli
Target Names	BMI1
Expression Region	1-250aa
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	56.4kDa
Protein Length	Partial
Image	



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

Description

The region for expressing recombinant Human BMI1 contains amino acids 1-250. This BMI1 protein is expected to have a theoretical molecular weight of 56.4 kDa. This protein is generated in a e.coli-based system. The N-terminal GST tag was fused into the coding gene segment of BMI1, making it easier to detect and purify the BMI1 recombinant protein in the later stages of expression and purification.

The human polycomb complex protein BMI1 is a vital component of the polycomb repressive complex 1 (PRC1), crucial for epigenetic gene regulation. Its main function involves the transcriptional repression of target genes, influencing cellular processes like cell cycle regulation and stem cell maintenance. BMI1's role in inhibiting the tumor suppressor p16INK4a highlights its significance in controlling cell proliferation. In research, BMI1 is explored for its implications in cancer, stem cell biology, and developmental processes. Understanding BMI1's functions provides insights into epigenetic mechanisms, with potential applications in cancer therapeutics and regenerative medicine.

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

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