

Active Recombinant Full Length Human BMI1 Protein, N-His-tagged

Cat. No. BMI1-427HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human BMI1 Protein, fused to His-tag at N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a ring finger protein that is major component of the polycomb group complex 1 (PRC1). This complex functions through chromatin remodeling as an essential epigenetic repressor of multiple regulatory genes involved in embryonic development and self-renewal in somatic stem cells. This protein also plays a central role in DNA damage repair. This gene is an oncogene and aberrant expression is associated with numerous cancers and is associated with resistance to certain chemotherapies. A pseudogene of this gene is found on chromosome X. Read-through transcription also exists between this gene and the upstream COMM domain containing 3 (COMMD3) gene.
Form	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 100 mM Arg.
Bio-activity	In vitro kinase assay substrate Binding assay (competitor)
Molecular Mass	36.9 kDa

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AA Sequence	A DNA sequence encoding human full-length BMI1.
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
Full Length	Full L.

GENE INFORMATION

Gene Name	BMI1 BMI1 proto-oncogene, polycomb ring finger [Homo sapiens (human)]
Official Symbol	BMI1
Synonyms	PCGF4; RNF51; FLVI2/BMI1; flvi-2/bmi-1
Gene ID	648
mRNA Refseq	NM_005180.9
Protein Refseq	NP_005171.4

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MIM 164831**UniProt ID** P35226

Coomassie blue staining of purified BMI1 protein.

BMI1 competitively inhibits the interaction between MDM2 and the AR-NTD. Purified AR-NTD and GST-MDM2 proteins were incubated with purified His-BMI1 protein at indicated concentrations at 4 C for 12 hours, followed by GST immunoprecipitation (IP). Both inputs and immunoprecipitated samples were probed with indicated antibodies in Western blot.

CK2alpha phosphorylates BMI1 at serine 110. Purified BMI1 and CK2alpha reacted in a kinase assay buffer supplemented with nonradioactive ATP. The reaction sample was analyzed with mass spectrometry. The spectrum of the BMI1 phosphopeptide is presented with the extracted ion chromatogram for the peptide with phosphate shown in the inset.

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