

Recombinant Human BCCIP, His-tagged

Cat. No. BCCIP-255H Lot. No. (See product label)

SPECIFICATION

Product Overview	BCCIP, 1-314aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-314aa
Description	BCCIP was isolated on the basis of its interaction with BRCA2 and p21 proteins. It is an evolutionarily conserved nuclear protein with multiple interacting domains. The N-terminal half shares moderate homology with regions of calmodulin and M-calpain, suggesting that it may also bind calcium. Functional studies indicate that this protein may be an important cofactor for BRCA2 in tumor suppression, and a modulator of CDK2 kinase activity via p21. This protein has also been implicated in the regulation of BRCA2 and RAD51 nuclear focus formation, double-strand break-induced homologous recombination, and cell cycle progression. Recombinant human BCCIP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	38.6kDa(339aa), confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEFMASRS KRRAVESGVP QPPDPPVQRD EEEEKEVENE DEDDDDDSDKE KDEEDEVIDE EVNIEFEAYS LSDNDYDGIK KLLQQLFLKA PVNTAELTDL LIQQNHIGSV IKQTDVSEDS NDDMDEDEVF GFISLLNLTE RKGTCQVEQI QELVLRFCCK NCEKSMVEQL DKFLNDTTKP VGLLLSERFI NVPPQIALPM YQQLQKELAG AHRTNKPCGK CYFYLLISK FVEAGKNNK KKPSNKKKAA LMFANAEFEF FYEKAILKFN YSVQEESDTC LGGKWSFDDV PMTPLRTVML IPGDKMNEIM DKLKEYLSV
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	BCCIP BRCA2 and CDKN1A interacting protein [Homo sapiens]
Official Symbol	BCCIP
Synonyms	BCCIP; BRCA2 and CDKN1A interacting protein; BRCA2 and CDKN1A-interacting protein; BCCIPalpha; TOK 1; BCCIPbeta; TOK-1beta; TOK-1alpha; protein TOK-1; cdk inhibitor p21 binding protein; p21- and CDK-associated protein 1; BRCA2 and Cip1/p21 interacting protein; TOK1; TOK-1;
Gene ID	56647
mRNA Refseq	NM_016567
Protein Refseq	NP_057651

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MIM	611883
UniProt ID	Q9P287
Chromosome Location	10q26.2
Function	kinase regulator activity; protein binding;

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