

## Active Recombinant Human BRCA1, His-tagged

Cat. No. BRCA1-8497H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human BRCA1, fused with His tag, was expressed in Sf21 Cells.
<b>Species</b>	Human
<b>Source</b>	Sf21 Cells
<b>Description</b>	The human BRCA1, the product of breast and ovarian cancer gene 1, is a hyperphosphorylated protein functioning as a tumor suppressor involved in both transcription regulation and DNA repair. BRCA1 associates with RAD51 and has shown to be required for transcription-coupled repair of DNA damage as well as for the repair of chromosomal double-strand breaks. Association with a human SWI/SNF-related complex has recently suggested a potential role of BRCA1 in linking chromatin remodeling to breast cancer.
<b>Form</b>	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA
<b>Bio-activity</b>	1 unit equals 1 ng of purified protein. 1 unit is sufficient for a gel mobility shift assay in a 20µl reaction; 50 units are sufficient for reconstituted transcription assay and 100 units are sufficient for a protein-protein interaction assay.
<b>AA Sequence</b>	MDLSALRVEE VQNVINAMQK ILECPICLEL IKEPVSTKCD HIFCKFCMLK LLNQKKGPSQ CPLCKNDITK RSLQESTRFS QLVEELLKII CAFQLDTGLE YANSYNFAKK ENNSPEHLKD EVSIIQSMGY RNRKRLLQS EPENPSLQET SLSVQLSNLG TVRTLRTKQR IQPQKTSVYI ELGSDSSEDV VNKATYCSVG DQELLQITPQ GTRDEISLDS AKKAACEFSE TDVTNTEHHQ PSNNDLNTTE

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KRAAERHPEK YQGSSVSNLH VEPCGTNTHA SSLQHENSLL LLTKDRMNVE  
KAEFCNKSQ PGLARSQHNR WAGSKETCND R RTPSTEKKV DLNADPLCER  
KEWNKQKLPC SENPRDTEVD PWITLNSSIQ KVNEWFSRSD ELLGSDSDSHD  
GESENAKVA DVLDVLNEVD EYSGSSEKID LLASDPHEAL ICKSERVHSK  
SVESNIEDKI FGKTYRKKAS LPNL SHVTEN LIIGAFVTEP QIIQERPLTN  
KLKRKRRTS GLHPEDFIKK ADLAVQKTPE MINQGTNQTE QNGQVMNITN  
SGHENKTKGD SIQNEKNPNP IESLEKESAF KTKAEPISSS ISNMELELNI  
HNSKAPKKNR LRRKSSTRHI HALELVSRN LSPPNCTELQ IDSCSSSEEI  
KKKKYNQMPV RHSRNLQLME GKEPATGAKK SNKPNEQTSK RHSDTFPEL  
KLTNAPGSFT KCSNTSELKE FVNPSLPREE KEEKLETVKV SNNAEDPKDL  
MLSGERVLQT ERSVESSSIS LVPGTDYGTQ ESISLLEVST LGKAKTEPNK  
CVSQCAAFEN PKGLIHGCSK DNRNDTEGFK YPLGHEVNHS RETSIEMEES  
ELDAQYLQNT FKVSKRQSFA PFSNPGNAEE ECATFSAHSG SLKKQSPKVT  
FECEQKEENQ GKNESNIKPV QTVNITAGFP VVGQKDKPVD NAKCSIKGGS  
RFCLSSQFRG NETGLITPNK HGLLQNPYRI PPLFPIKSFV KTKCKKNLLE  
ENFEEHSMSP EREMGNENIP STVSTISRNN IRENVFKEAS SSNINEVGSS  
TNEVGSSINE IGSSDENIQA ELGRNRGPKL NAMLRGLVLQ PEVYKQSLPG  
SNCKHPEIKK QEYEEVVQTV NTDFSPYLIS DNLEQPMGSS HASQVCSETP  
DDLDDGEIK EDTSFAENDI KESSAVFSKS VQKGELSRSP SPFTHTHLAQ  
GYRRGAKKLE SSEENLSSD EELPCFQHLL FGKVNIPSQSTRHSTVATE  
CLSKNTEENL LSLKNSLNDK SNQVILAKAS QEHHLSEETK CSASLFSSQC  
SELEDLTANT NTQDPFLIGS SKQMRHQSES QGVGLSDKEL VSDDEERGTV  
LEENNQEEQS MDSNLGEAAS GCESETSVSE DCSGLSSQSD ILTTQQRDTM  
QHNLIKLQQE MAELEAVLEQ HGSQPSNSYP SIISDSSALE DLRNPEQSTS  
EKAVLTSQKS SEYPISQNPE GLSADKFEVS ADSSTSKNKE PGVERSSPSK  
CPSLDDRWYM HSCSGSLQNR NYPSQEELIK VVDVEEQLE  
ESGPHDLTETSYLPRQDLEG TPYLESGISL FSDDPESDPS EDRAPESARV  
GNIPSSSAL KVPQLKVAES AQSPAAHTT DTAGYNAMEE SVSREKPELT  
ASTERVNKRMS MVVSGLTPE EFMLVYKFAR KHHITLNL I TEETHVVMK  
TDAEFVCERT LKYFLGIAGG KWVVS YFWVT QSIKERKMLN EHD FEVRGDV

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VNGRNHQGPK RARESQRKI FRGLEICCYG PFTNMPTDQL EWMVQLCGAS  
 VVKELSSFTL GTGVHPIVVV QPDAWTE DNG FHAIGQMCEA PVVTREWVLD  
 SVALYQCQEL DTYLIPQIPH SHY

**Purity** >95% as determined by SDS-PAGE

**Storage** -80 °C

**Concentration** 350 µg/ml

**Shipping** Dry Ice

## GENE INFORMATION

**Gene Name** [BRCA1 breast cancer 1, early onset \[ Homo sapiens \]](#)

**Official Symbol** BRCA1

**Synonyms** BRCA1; breast cancer 1, early onset; breast cancer type 1 susceptibility protein; BRCA1/BRCA2 containing complex; subunit 1; BRCC1; PPP1R53; protein phosphatase 1; regulatory subunit 53; RNF53; RING finger protein 53; BRCA1/BRCA2-containing complex, subunit 1; protein phosphatase 1, regulatory subunit 53; breast and ovarian cancer susceptibility protein 1; breast and ovarian cancer susceptibility protein 1; IRIS; PSCP; BRCAI; PNCA4; BROVCA1;

**Gene ID** [672](#)

**mRNA Refseq** [NM\\_007294](#)

**Protein Refseq** [NP\\_009225](#)

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<b>MIM</b>	113705
<b>UniProt ID</b>	P38398
<b>Chromosome Location</b>	17q21-q24
<b>Pathway</b>	ATF-2 transcription factor network, organism-specific biosystem; ATM mediated phosphorylation of repair proteins, organism-specific biosystem; ATM mediated response to DNA double-strand break, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Aurora A signaling, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; BRCA1-associated genome surveillance complex (BASC), organism-specific biosystem;
<b>Function</b>	DNA binding; DNA binding; RNA binding; androgen receptor binding; damaged DNA binding; enzyme binding; ligase activity; metal ion binding; protein binding; transcription coactivator activity; transcription regulatory region DNA binding; tubulin binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; contributes_to ubiquitin-protein ligase activity; zinc ion binding;

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