

Recombinant Human BRCA1 protein, his-tagged

Cat. No. BRCA1-27670TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BRCA1 fused with his tag was expressed in Baculovirus-insect cell.
Species	Human
Source	Insect Cells
Description	BRCA1 and BRCA1 are a human gene and its protein product, respectively. The official symbol (BRCA1, italic for the gene, nonitalic for the protein) and the official name (breast cancer 1) are maintained by the HGNC. Orthologs, styled Brca1 and Brca1, are common in other mammal species. BRCA1 is a human tumor suppressor gene (to be specific, a caretaker gene), found in all humans; its protein, also called by the synonym breast cancer type 1 susceptibility protein, is responsible for repairing DNA.
Form	This protein was kept in 1x dilution buffer A: 20 mM Tris-Cl (pH 8.0), 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA.
Molecular Mass	209.1 kDa
AA Sequence	MDLSALRVEEVQNVINAMQKILECPICLELIKEPVSTKCDHIFCKFCMLKLLNQKKGPS QCPLCKNDITKRSLQESTRFSQLVEELLKIICAFQLDTGLEAYANSYNFAKKENNSPEH LKDEVSI IQSMGYRNRKRLLQSEPENPSLQETSLSVQLSNLGTVRTLR TKQRIQPQ KTSVYIELGSDSSEDTV NKATYCSVGDQELLQITPQGTRDEISLDSAKKAACEFSETD VTNTEHHQPSNNDLNTTEKRAAERHPEKYQGSSVSNLHVEPCGTNTHASSLQHEN

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SSSLLTKDRMNVEKAEFCNKSQKQPLARSQHNRWAGSKETCNDR RTPSTEKKVDL
 NADPLCERKEWNKQKLPCSENPRDTEVPWITLNSSIQKVNEWFSRSDDELLGSDDS
 HDGESESNKAVADVLDVLNEVDEYSGSSEKIDLLASDPHEALICKSERVHKS SVESNI
 EDKIFGKTYRKKASLPNL SHVTENLIIGAFVTEPQIIQERPLTNKLKRKR RPTSG LHPE
 DFIKKADLAVQKTPEMINQGTNQTEQNGQVMNITNSGHENKTKGDSIQNEKNPNPIE
 SLEKESAFKTKAEPISSSISNMELELNIHNSKAPKKNRLRRKSSTRHHALELVVSRNL
 SPPNCTELQIDSCSSSEEIKKKKYNQMPVRHSRNLQLMEGKEPATGAKKSNKPNEQ
 TSKRHSDTFPELKL TNAPGSFTKCSNTSELKEFVNPSLPREEKEEKLET VKVSNNA
 EDPKDLMLSGERVLQTERSVESSSISLVPGTDYGTQESISLLEVSTLGAKTEPNKC
 VSQCAAFENPKGLIHGCSKDN RNDTEGFKYPLGHEVNH SRETSIEMEES ELDAQYL
 QNTFKVSKRQSFAPFSNPGNAEEEECATFSAHSGSLKKQSPKVTFECEQKEENQ GK
 NESNIKPVQTVNITAGFPVVGQKDKPVDNAKCSIKGGS RFCLSSQFRGNETGLITPN
 KHG LLQNPYRIPPLFPIKSFVKTCKKNLLEENFEEHSMSPEREMGNENIPSTVSTIS
 RNNIRENVFKEASSNINEVGSSSTNEVGSSINEIGSSDENIQAELGRNRGPKL NAML R
 LGVLQPEVYKQSLPGSNCKHPEIKKQEYEEVVQTVNTDFSPYLISDNLEQPMGSSHA
 SQVCSETPDDLDDGEIKEDTSFAENDIKESSAVFSKSVQKGELSRSPSPFTHTHLA
 QGYRRGAKKLESSEENLSSSEDEELPCFQHLLFGKVNNIPSQSTRHSTVATECLSKNT
 EENLLSLKNSLNDCSNQVILAKASQEHHLSEETKCSASLFSSQCSELEDLTANTNTQ
 DPFLIGSSKQMRHQSESQGVGLSDKELVSDDEERG TGLEENNQEEQSMDSNLGEA
 ASGCESETSVSEDCSGLSSQSDILTTQQRDTMQHNLIKLQQEMAELEAVLEQHGSQ
 PSNSYPSIISDSSALEDLRNPEQSTSEKAVLTSQKSSEYPISQNPEGLSADKFEVSAD
 SSTSKNKEPGVERSSPSKCPSLDDRWMHSCSGSLQNRNYP SQEELIKVVDVEEQ
 QLEESGPHDLTETSYLPRQDLEGTPYLESGISLFSDDPESDPSEDRAPE SARVGNIP
 SSTSALKVPQLKVAESAQSPAAAHTTDTAGYNAMESVSREKPELTASTERV NCRM
 SMVVSGLTPEEFMLVYKFARKHHITLTNLITEETTHVVMKTD AEFVCERTLKYFLGIA
 GGKWWVS YFWVTQSIKERKMLNEHDFEVRGDVVNGRNHQGPKRARES QDRKIFR
 GLEICCYGPFTNMPTDQLEWMVQLCGASVVKELSSFTLGTGVHPVVVQPD AWTED
 NGFHAIGQMCEAPVVTREWVLDSVALYQCQELDTYLIPQIPHSHY

Purity

0.9

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Applications 1 unit is sufficient for a gel mobility shift assay in a 20 μ reaction; 50 units are sufficient for reconstituted transcription assay and 100 units are sufficient for a protein-protein interaction assay. Concentration is variable in different lots.

Storage Always store at -80 centigrade. Avoid repeated freeze thaw cycles.

GENE INFORMATION

Gene Name BRCA1 BRCA1, DNA repair associated [Homo sapiens (human)]

Official Symbol BRCA1

Synonyms IRIS; PSCP; BRCAI; BRCC1; FANCS; PNCA4; RNF53; BROVCA1; PPP1R53

Gene ID 672

mRNA Refseq NM_007294

Protein Refseq AAC37594

MIM 113705

UniProt ID P38398

Chromosome Location 17q21.31

Pathway ATF-2 transcription factor network, organism-specific biosystem (from Pathway Interaction Database)
Androgen receptor signaling pathway, organism-specific biosystem (from WikiPathways)

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Aurora A signaling, organism-specific biosystem (from Pathway Interaction Database)
BARD1 signaling events, organism-specific biosystem (from Pathway Interaction Database)

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