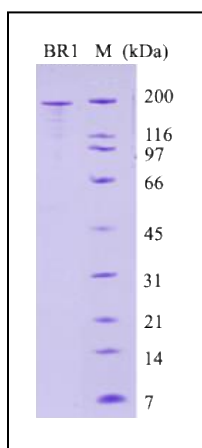


Recombinant BRCA1 Protein

Catalog Number	Size
AG1105-10	10ug
AG1105-25	25ug
AG1105-B	Bulk

Description

The human breast cancer type 1 (BRCA1) protein was expressed in the baculovirus system and purified by the combination of Ni-affinity column and other conventional chromatographic methods. The resulted protein contains 1874 (1863+11) amino acids with an 6His tag at the C-terminus. It migrates in SDS-PAGE with an apparent molecular mass of 190kDa.



MDLSALRVEEVQNVINAMQKILECPICLELIKEPVSTKCDHIFCKFCMLKLLNQK
 KGPSQCPLCKNDITKRSQESTRFSQVLEELLKIIICAFQLDTGLEAYANSYNFAKK
 ENNSPEHLKDEVSI IQSMGYRNRKRLQLQSEPNPSLQETSLSVQLSNLGTVRTL
 RTKQRIQPQKTSVYIELGSDSSEDTVNKATYCSVGQELLQITPQGRDEISLDS
 AKKAACEFSETDVTNTEHHQPSNNDLNTTEKRAAERHPEKYQGSSVSNLHVEPCG
 TNTHASSLQHENSLLLLTKDRMNVEKAFCNKSQKPLARSQHNRWAGSKETCND
 RRTPSTEKKVDLNDPLCERKEWNKQKLPCSENPRDTEVPWITLNSSIQKVNWE
 FSRDELGLGSDSDHGESESNKAVADVLDVLENEVDEYSGSSEKIDLLASDPHEAL
 ICKSERVHKS SVESNIEDKIFGKTYRKKASLPNLSHVTENLIIGAFVTEPQIIQE
 RPLTNKLKRKRRTSGLHPEDFIKKADLAVQKTPEMINQGTNQTQNGQVMNITN
 SGHENKTGDSIQNEKNPNPIESLEKESAFKTKAEPISISSISNMELELNHNSKA
 PKNRLRRKSTRHIALELVSRNLSPNCTELQIDSCSSSEEEKKKYNQMPV
 RHSRNLQLMGKEPATGAKSKNKPNEQTSKRHSDSTFPELKL TNAPGSFTKCSNT
 SELKEFVNPSLPREEKEELETVKVSNNADPKDLMLSGERVLQTERSVESSSIS
 LVPGTDYGTQESISLLEVSTLGKAKTEPNKCVSQCAAFENPKGLIHGCSKDNRND
 TEGFKYPLGHEVNHRSRETSIEMESELDAQYLQNTFKVSKRQSFAPFSNPGNAEE
 ECATFSAHSGSLKKQSPKVTFECEQKEENQKKNESNIKPVQTVNITAGFPVVGQK
 DKPVDNAKCSIKGGSRFCLSSQFRGNETGLITPNKHGLLQNPYRIPPLFIKSFV
 KTKCKKNLLEENFEEHSMSPEREMGNENIPSTVSTISRNNIRENVFKEASSNIN
 EVGSSTNEVGSSINEIGSSDENIQAELGRNRGPKLNAMLRGLVQLPEVYKQSLPG
 SNCKHPEIKKQYEEVVQTVNTDFSPYLISDNLEQPMGSSHASQVCSETPDQLLD
 DGEIKEDTSFAENDIKESSAVFSKSVQKGELSRSPSPFTHTHLAQGYRRGAKKLE
 SSEENLSSSEDEELPCFQHLLFGKVNNIPSQSTRHSTVATECLSKNTEENLLSLKN
 SLNDCSNQVILAKASQEHHLSEETKCSASLFSSQCSELEDLTANTNTQDPFLIGS
 SKQMRHQSESQGVGLSDKELVSDDEERGTGLEENNQEEQSMDSNLGEAASGCESE
 TSVSEDCSGLSSQSDILTTQQRDTMQHNLIKQQEMAELEAVLEQHGSQPSNSYP
 SIISDSSALEDLRNEQSTSEKAVLTSQKSSEYPISQNPGLSADKFEVSADSST
 SKNKEPGVERSPPSKCPSLDDRWMHSCSGSLQNRNYPQSEELIKVVDVEEQLE
 ESGPHDLTETSYLPRQDLEGTPLYESGISLFSDDPESDPSEDRAPE SARVGNIPS
 STSALKVPQLKVAESAQSPAAHTTDTAGYNAMEESVSREKPELTASTERVNCRM
 SMVVSGLTPPEEFMLVYKFARKHHITLTNLI TEETHVVMKTDAEFVCERTLYFL
 GIAGGKVVVS YFWVTQSIKERKMLNEHDFEVRGDDVNGRHHQGPKRARESQRKI
 FRGLEICCYGPFITNMPTDQLEWMVQLCGASVVKELSSFTLTGTGVHPVVVQPDW
 TEDNGFHAIGQMCEAPVVTREWVLDSVALYQCQELDTYLIPIPHSHY **LEEDGHH**
HHHH—



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Accession Number	NM_007294
Molecular Mass	Approximately 190kDa.
Purity	≥90%, as determined by SDS-PAGE.
Biological Activity	The BRCA1 protein acts as a tumor suppressor that plays an essential role in transcription, DNA repair and recombination. Mutations in the protein are responsible for approximately 40% of inherited breast cancer. The recombinant BRCA1 protein can be used for the studies of transcription assays, protein-protein interactions and other related function assays.
Formulation	20mM Tris-Cl (pH7.9), 20% glycerol 100mM NaCl, 1mM DTT and 1mM EDTA.
Storage	The protein sample can be stored under sterile conditions at 2-8°C for one month or at -20°C to -70°C for three months without detectable loss of activity. (<i>Avoid repeated freeze-thaw cycle</i>)

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