

Recombinant Human BRCA2 protein, His & T7-tagged

Cat. No. BRCA2-6856H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BRCA2 aa. (Lys2308~His2537 (Accession # P51587)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Lys2308~His2537
Description	Inherited mutations in BRCA1 and this gene, BRCA2, confer increased lifetime risk of developing breast or ovarian cancer. Both BRCA1 and BRCA2 are involved in maintenance of genome stability, specifically the homologous recombination pathway for double-strand DNA repair. The BRCA2 protein contains several copies of a 70 aa motif called the BRC motif, and these motifs mediate binding to the RAD51 recombinase which functions in DNA repair. BRCA2 is considered a tumor suppressor gene, as tumors with BRCA2 mutations generally exhibit loss of heterozygosity (LOH) of the wild-type allele.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30.0kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 9.7.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH ₂ O.

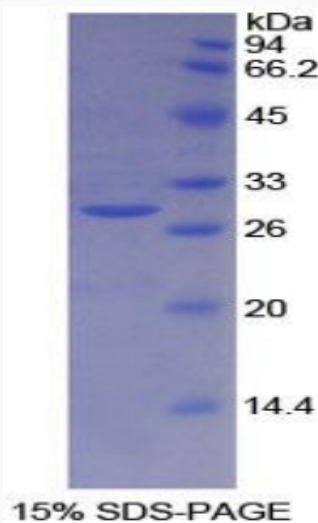
GENE INFORMATION

Gene Name	BRCA2 BRCA2, DNA repair associated [Homo sapiens (human)]
Official Symbol	BRCA2
Synonyms	FAD; FACD; FAD1; GLM3; BRCC2; FANCD; PNCA2; FANCD1; XRCC11; BROVCA2; BRCA1/BRCA2-containing complex, subunit 2; Fanconi anemia group D1 protein; breast and ovarian cancer susceptibility gene, early onset; breast and ovarian cancer susceptibility protein 2; breast cancer 2 tumor suppressor; breast cancer 2, early onset; mutant BRCA2; truncated breast cancer 2; breast cancer type 2 susceptibility protein

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Gene ID	675
mRNA Refseq	NM_000059.3
Protein Refseq	NP_000050.2
UniProt ID	P51587
SDS-PAGE	 15% SDS-PAGE