

Recombinant Full Length Human RAD52 Protein, C-Flag-tagged

Cat. No. RAD52-1565HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human RAD52 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene shares similarity with <i>Saccharomyces cerevisiae</i> Rad52, a protein important for DNA double-strand break repair and homologous recombination. This gene product was shown to bind single-stranded DNA ends, and mediate the DNA-DNA interaction necessary for the annealing of complementary DNA strands. It was also found to interact with DNA recombination protein RAD51, which suggested its role in RAD51 related DNA recombination and repair. A pseudogene of this gene is present on chromosome 2. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	46 kDa
AA Sequence	MSGTEEAILGGRDShPAAGGGSVLCFGQCQYTAEEYQAIQKALRQRLGPEYISSRM AGGGQKVCYIEGHR VINLANEMFGYNGWAHSITQQNVDFVDLNNKGFYVGVCAFV RVQLKDGSYHEDVGYGVSEGLKSKALSLE KARKEAVTDGLKRALRSFGNALGNCIL

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DKDYLRSLNKLPRQLPLEVDLTKAKRQDLEPSVEEARYNSCRP NMALGHPQLQQV
 TSPSRPSHAVIPADQDCSSRSLSSSAVESEATHQRKLRQKQLQQQFRERMEKQQV
 RVS TPSAEKSEAAPPAPPVTHSTPVTVSEPLLEKDFLAGVTQELIKTLEDNSEKWAV
 TPDAGDGVVKPSSRAD PAQTSDTLALNNQMVTQNRTPHSVCHQKPQAKSGSWDL
 QTYSADQRTTGNWESHRSQDMKKRKYDPSTRTRPLEQKLISEEDLAANDILDYKD
 DDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Homologous recombination
Full Length	Full L.

GENE INFORMATION

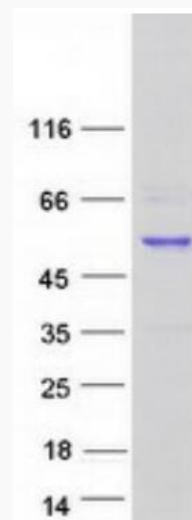
Gene Name	RAD52 RAD52 homolog, DNA repair protein [Homo sapiens (human)]
Official Symbol	RAD52

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Synonyms	RP11-359B12.2
Gene ID	5893
mRNA Refseq	NM_134424.4
Protein Refseq	NP_602296.2
MIM	600392
UniProt ID	P43351



Coomassie blue staining of purified RAD52 protein.

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