

Active Recombinant Full Length Human RAD18 Protein, C-Flag-tagged

Cat. No. RAD18-529HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human RAD18 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 is highly similar to <i>S. cerevisiae</i> DNA damage repair protein Rad18. Yeast Rad18 functions through its interaction with Rad6, which is an ubiquitin-conjugating enzyme required for post-replication repair of damaged DNA. Similar to its yeast counterpart, this protein is able to interact with the human homolog of yeast Rad6 protein through a conserved ring-finger motif. Mutation of this motif results in defective replication of UV-damaged DNA and hypersensitivity to multiple mutagens.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	In vitro protein binding assay
Molecular Mass	56 kDa
AA Sequence	MDSLAESRWPPGLAVMKTIDLLRCGICFEYFNIAIIPQCSHNYCSLCIRKFLSYKT QCPTCCVTVTEP DLKNNRILDELVKSLNFARNHLLQFALESPAKSPASSSSKNLAVK VYTPVASRQSLKQGSRLMDNFLIRE MSGTSELLIKENKSKFSPQKEASPAAKTKET

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RSVEEIAPDPSEAKRPEPPSTSTLKQVTKVDCPVCNV IPESHINKHLDSCLSREEK
 KESLRSSVHKRKPLPKTVYNLLSDRDLLKKLKEHGLSIQGNKQQLIKRHQE FVHMY
 NAQCDALHPKSAAEIVQEIENIEKTRMRLEASKLNESVMVFTKDQTEKEIDEIHSKYR
 KKKHSEF QLLVDQARKGYKKIAGMSQKTVTITKEDESTEKLSSVCMGQEDNMTSVT
 NHFSQSKLDSPEELEPDREED SSSCIDIQEVLSSSES DSCNSSSSDIIRDLLLEEEEA
 WEASHKNDLQDTEISPRQNRRTAAESAEIEPRN
 KRNTRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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
Full Length	Full L.

GENE INFORMATION

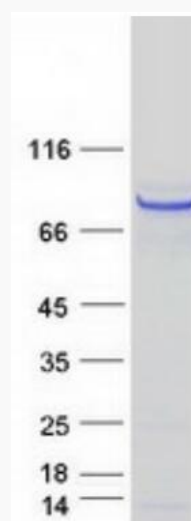
Gene Name	RAD18 RAD18 E3 ubiquitin protein ligase [Homo sapiens (human)]
Official Symbol	RAD18
Synonyms	RNF73

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Gene ID	56852
mRNA Refseq	NM_020165.4
Protein Refseq	NP_064550.3
MIM	605256
UniProt ID	Q9NS91



Coomassie blue staining of purified RAD18 protein.