

Active Recombinant Full Length Human RRM1 Protein, C-Flag-tagged

Cat. No. RRM1-179HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human RRM1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes the large and catalytic subunit of ribonucleotide reductase, an enzyme essential for the conversion of ribonucleotides into deoxyribonucleotides. A pool of available deoxyribonucleotides is important for DNA replication during S phase of the cell cycle as well as multiple DNA repair processes. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Binding assay
Molecular Mass	89.9 kDa
AA Sequence	MHVIKRDGRQERV MFDKITSRIQKLCYGLNMD FVDPAQITMKVIQGLYSGVTTVELD TLAAETAATLTT KHPDYAILAARIAVS NLHKETKKVFSDVMEDLYNYINPHNGKHSPM VAKSTLDIV LANKDRLNSAIYD RDFS YNYFGFKTLERSYLLKINGKVAERPQHMLMR VSVG I HKEDIDAAIETY NLLSERW FTHASPTLFN AGTNR PQLSSCFLLSMKDD SIEGI YDTLKQCALISK SAGGIGVAVSCIRATGSYIAGTNGNSNGLVPML RVYNNTARYVDQ

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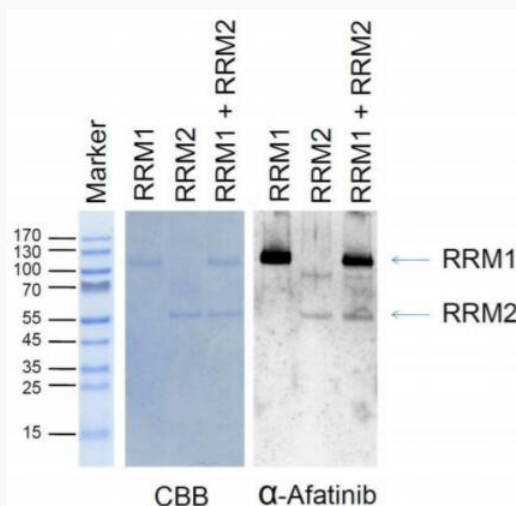
 45-1 Ramsey Road, Shirley, NY 11967, USA

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 GTPYMLYKDSCNRK SNQQNLGTIKCSNLCTEIVEYTSKDEVAVCNLASLALNMYVT
 SEHTYDFKKLAEVTKVVVRNLNKIIDI NYYPVPEACLSNKRHRPIGIGVQGLADAFILM
 RYPFESAEAQLLNKQIFETIYYGALEASCDLAKEQGP YETYEGSPVSKGILQYDMWN
 VTPTDLWDWKVLKEKIAKYGIRNSLLIAPMPTASTAQILGNNESEPYT SNIYTRRVLS
 GEFQIVNPHLLKDLTERGLWHEEMKNQIIACNGSIQSIPEIPDDLKQLYKTVWEISQKT
 VLKMAAERGAFIDQSQSLNIHIAEPNYGKLTSMHFYGWKQGLKTGMYYLRTRPAAN
 PIQFTLNKEKLKD
 KEKVSKEEEEKERNTAAMVCSLENRDECLMCGSTRTRPLEQKLISEEDLAANDILDY
 KDDDDKV

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	Glutathione metabolism, Metabolic pathways, Purine metabolism, Pyrimidine metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	RRM1 ribonucleotide reductase catalytic subunit M1 [Homo sapiens (human)]
Official Symbol	RRM1
Synonyms	R1; RR1; RIR1
Gene ID	6240
mRNA Refseq	NM_001033.5
Protein Refseq	NP_001024.1
MIM	180410
UniProt ID	P23921



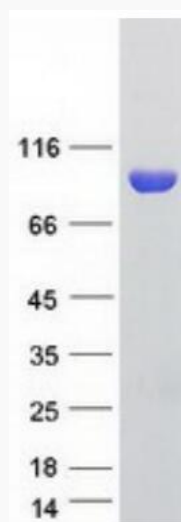
Afatinib, a covalent inhibitor of ErbB family, modifies RRM1 and RRM2. Two ug

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recombinant RRM1 and/or 1 ug RRM2 in the presence of 12.5 uM afatinib were incubated for one hour at 37 centigrade. The reaction product was examined by Coomassie blue G-250 staining and immunoblotting with anti-afatinib antiserum.



Coomassie blue staining of purified RRM1 protein.