

# Recombinant Human RRM1

**Cat. No.** RRM1-29473TH    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment of Human RRM1 (amino acids 644-753) with N terminal proprietary tag; Predicted MWt 37.73 kDa including the tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 110 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>This gene encodes one of two non-identical subunits that constitute ribonucleoside-diphosphate reductase, an enzyme essential for the production of deoxyribonucleotides prior to DNA synthesis in S phase of dividing cells. It is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocrotical carcinoma, and lung, ovarian, and breast cancer. This gene may play a role in malignancies and disease that involve this region.</p> |
| <b>Molecular Weight</b> | 37.730kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage buffer</b>   | pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|---------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                            |
| <b>Sequences of amino acids</b> | DLTERGLWHEEMKNQIIACNGSIQSIPEIPDDLKQLYKTV WEISQKTVLKMAAERGAF<br>IDQSQSLNIHIAEPNYGKLTSM HFYGWKQGLKTGMYYLRTRPAANPIQFTLN |
| <b>Sequence Similarities</b>    | Belongs to the ribonucleoside diphosphate reductase large chain family.Contains 1 ATP-cone domain.                   |

## GENE INFORMATION

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | RRM1 ribonucleotide reductase M1 [ Homo sapiens ]                                                                               |
| <b>Official Symbol</b>     | RRM1                                                                                                                            |
| <b>Synonyms</b>            | RRM1; ribonucleotide reductase M1; ribonucleotide reductase M1 polypeptide; ribonucleoside-diphosphate reductase large subunit; |
| <b>Gene ID</b>             | 6240                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_001033                                                                                                                       |
| <b>Protein Refseq</b>      | NP_001024                                                                                                                       |
| <b>MIM</b>                 | 180410                                                                                                                          |
| <b>Uniprot ID</b>          | P23921                                                                                                                          |
| <b>Chromosome Location</b> | 11p15.5                                                                                                                         |
| <b>Pathway</b>             | E2F transcription factor network, organism-specific biosystem; Fluoropyrimidine                                                 |

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Activity, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;

**Function**

ATP binding; oxidoreductase activity; purine nucleotide binding; ribonucleoside-diphosphate reductase activity; ribonucleoside-diphosphate reductase activity;

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