Recombinant Human RRM1

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

SPECIFICATION

Product Overview	Recombinant fragment of Human RRM1 (amino acids 644-753) with N terminal proprietary tag; Predicted MWt 37.73 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	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.
Molecular Weight	37.730kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione

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

GENE INFORMATION

Gene Name	RRM1 ribonucleotide reductase M1 [Homo sapiens]
Official Symbol	RRM1
Synonyms	RRM1; ribonucleotide reductase M1; ribonucleotide reductase M1 polypeptide; ribonucleoside-diphosphate reductase large subunit;
Gene ID	6240
mRNA Refseq	NM_001033
Protein Refseq	NP_001024
MIM	180410
Uniprot ID	P23921
Chromosome Location	11p15.5
Pathway	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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