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Recombinant Human RRM2 Protein

Catalog No.: RP03104 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	6241	P31350-1

Tags
C-His

Synonyms
R2; RR2; RR2M; C2orf48

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
45.9 KDa

Observed MW
47 KDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 5% Trehalose, pH 8.0. Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Ribonucleoside-Diphosphate Reductase Subunit M2 (RRM2) belongs to the ribonucleoside diphosphate reductase small chain family. The reductase of RRM2 catalyzes the formation of deoxyribonucleotides from ribonucleotides. Synthesis of the encoded protein (M2) is regulated in a cell-cycle dependent fashion. RRM2 supplies the precursors essential for DNA synthesis. RRM2 catalyzes the biosynthesis of deoxyribonucleotides from the corresponding ribonucleotides. Phosphorylation on Ser-20 relieves the inhibitory effect on Wnt signaling.

Basic Information

Description
Recombinant Human RRM2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Phe389) of Human RRM2 (Accession #NP_001025.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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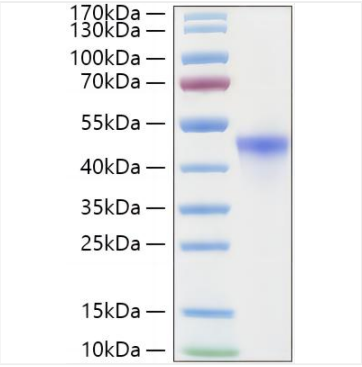
Validation Data



Recombinant Human RRM2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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