Recombinant Human Nucleophosmin/NPM1 Protein

Catalog No.: RP02929

Sequence Information

Species
Human

Gene ID
4869

Swiss Prot
P06748

Tags
N-His

Synonyms
B23,NPM,NPM1,Phospho-Nucleophosmin-T199

Product Information

Source
E. coli

Purification
≥ 85 % as determined by SDS-PAGE.

Calculated MW
34 kDa

Observed MW
35-45 kDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from a 0.22 μm filtered solution of 30 mM Hepes, 2 mM EDTA, 0.001 % Tween, 15 % glycerol, pH 7.0.

Reconstitution
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

Nucleophosmin 1 (NPM1), also known as nucleolar phosphoprotein B23 or numatrin, is a member of the nucleoplasmin family. Nucleophosmin (NPM) is a nucleolar phosphoprotein that plays multiple roles in ribosome assembly and transport, cytoplasmic-nuclear trafficking, centrosome duplication, and regulation of p53. The NPM1 gene is frequently involved in chromosomal translocation, mutation, and deletion. Mutations of the NPM1 gene leading to the expression of a cytoplasmic mutant protein, NPMc+, are the most frequent genetic abnormalities found in acute myeloid leukemias. Acute myeloid leukemia (AML) with mutated NPM1 have distinct characteristics, including a significant association with a normal karyotype, the involvement of different hematopoietic lineages, a specific gene-expression profile, and clinically, a better response to induction therapy, and a favorable prognosis. Also, NPM1 is a crucial gene to consider in the context of the genetics and biology of cancer. NPM1 is frequently overexpressed, mutated, rearranged, and deleted in human cancer. Traditionally regarded as a tumor marker and a putative proto-oncogene, it has now also been attributed with tumor-suppressor functions.

Basic Information

Description
Recombinant Human Nucleophosmin/NPM1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Glu2-Leu294) of human Nucleophosmin/NPM1 (Accession #NP_002511.1) fused with and a 6×His tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

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

Contact

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Validation Data

No validation data available.