

Recombinant Human NUP98 protein, His-tagged

Cat. No. NUP98-5792H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human NUP98 aa. (Gln629~Pro894) fused with N-terminal His tag was produced in E. coli cells.

Species

Human

Source

E.coli

ProteinLength

Gln629~Pro894

Description

Nuclear pore complexes (NPCs) regulate the transport of macromolecules between the nucleus and cytoplasm, and are composed of many polypeptide subunits, many of which belong to the nucleoporin family. This gene belongs to the nucleoporin gene family and encodes a 186 kDa precursor protein that undergoes autoproteolytic cleavage to generate a 98 kDa nucleoporin and 96 kDa nucleoporin. The 98 kDa nucleoporin contains a Gly-Leu-Phe-Gly (GLGF) repeat domain and participates in many cellular processes, including nuclear import, nuclear export, mitotic progression, and regulation of gene expression. The 96 kDa nucleoporin is a scaffold component of the NPC. Proteolytic cleavage is important for targeting of the proteins to the NPC. Translocations between this gene and many other partner genes have been observed in different leukemias. Rearrangements typically result in chimeras with the N-terminal GLGF domain of this gene to the C-terminus of the partner gene. Alternative splicing results in multiple transcript variants encoding different isoforms, at least two of which are proteolytically processed. Some variants lack the region that encodes the 96 kDa nucleoporin.

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Form	Freeze-dried powder
Molecular Mass	34kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>92%
Characteristic	The isoelectric point is 5.5.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	100mM NaHCO ₃ , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300
Reconstitution	Reconstitute in 100mM NaHCO ₃ , 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex
GENE INFORMATION	
Gene Name	NUP98 nucleoporin 98 [Homo sapiens (human)]
Official Symbol	NUP98

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Synonyms	ADIR2; NUP96; NUP196; GLFG-repeat containing nucleoporin; NUP98/PHF23 fusion 2 protein; Nup98-Nup96; nucleoporin 98kD; nucleoporin 98kDa; nuclear pore complex protein Nup98-Nup96; nuclear pore complex protein Nup98
Gene ID	4928
mRNA Refseq	NM_005387.6
Protein Refseq	NP_005378.4
UniProt ID	P52948
SDS-PAGE	