

## NUP98 Protein, Human, Recombinant (hFc)

## General Information

Synonyms: NUP98; Nuclear pore complex protein Nup98-Nup96; ADAR2

Protein Construction: 1-880 aa

Species: Human

Expression Host: HEK293 Cells

Accession: P52948

Molecular Weight: 120.6 kDa (predicted)

AA Sequence:

MFNKSFGTPEFGGGTGGFGTTSTFGQNTGFGTSSGGAFGTSAFGSSNNTGGLFGNSQTKPGGLFGTSSFSQPA  
TSTSTGFGFGTSTGTANTLFGTASTGTSLSFSSQNNFAAQNKPTGFGNFGTSTSSGGLFGTTNTSNPFGSTSGS  
LFGPSSFTAAPTGTTIKFNPTGDTMVKAGVSTNISTKHQCITAMKEYESKSLEELRLEDYQANRKGPNQV  
GAGTTTGLFGSSPATSSATGLFSSSTNSGFAYGQNKTAFGTSTTGFGTNPGLFGQQNQQTSLFSKPFQQA  
TTQNTGFSFGNTSTIGQPSTNTMGLFGVTQASQPGLFGTATNTSTGTAFGTGTGLFGQTNTGFGAVGSTLF  
GNNKLTTFGSSTTSAPSFGTSSGGLFGNKPTLTGNTNTSNFGFGTNTSGNSIFGSKPAPGTLGTGLGAGFGT  
ALGAGQASLFGNQP KIGGPLGTGAFGAPGFNTTATLGFGAPQAPVALDPNASAAQAVLQQHINSITY  
SPFGDSPLFRNPMSDPKKKEERLKPTNPAAQKALTPPTHYKLTTPRATRVRPKALQTTGTAKSHLFDGLDDDE  
PSLANGAFMPKKSIIKLVKLNLSNLFSVNRDSENLASPEYPENGERFSFLSKPVDENHQDGEDSLV  
SHFYTNPIAKPIQTPESAGNKHSNSNSVDDTIVALNMRAALRNGLEGSSEETSFHDES LQDDREEIENNSYH  
MHPAGIILTKVGYTIPSMDDLAKITNEKGECIVSDFTIGRKGYSIYFEGDVNLTNLNLDIVHIRRKEVVVYLD  
DNQKPPVGEGLNRKAEVTLDGWVPTDKTSRCLIKSPDRLADINYEGRLEAVSRKQGAQFKEYRPEPGSWVFK  
VSHF

## QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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### Protein Background

Plays a role in the nuclear pore complex (NPC) assembly and/or maintenance. NUP98 and NUP96 are involved in the bidirectional transport across the NPC. May anchor NUP153 and TPR to the NPC. In cooperation with DHX9, plays a role in transcription and alternative splicing activation of a subset of genes. Involved in the localization of DHX9 in discrete intranuclear foci (GLFG-body).; (Microbial infection) Binds HIV-1 capsid-nucleocapsid (HIV-1 CA-NC) complexes and may thereby promote the integration of the virus in the host nucleus (in vitro). Binding affinity to HIV-1 CA-NC complexes bearing the capsid change ASN-74-ASP is reduced (in vitro).

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