

## NOL3 Human

**Description:** NOL3 Human Recombinant produced in E. coli is a single polypeptide chain containing 231 amino acids (1-208) and having a molecular mass of 25.0 kDa. NOL3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-1185

**Synonyms:** Nucleolar protein 3 (apoptosis repressor with CARD domain), Muscle-enriched cytoplasmic protein, Nucleolar protein of 30 kDa, Apoptosis repressor with CARD, nucleolar protein 3, NOP30, CARD2, ARC, NOP, MYP, MYC.

For research use only.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSMGNAQER PSETIDRERK  
RLVETLQADS GLLLDALLAR GVLTGPEYEA LDALPDAERR VRRLLLLVQG KGEAACQELL  
RCAQRTAGAP DPAWDWQHVG PGYRDRSYDP PCPGHWTPEA PGSGTTCPL  
PRASDPDEAG GPEGSEAVQS GTPEEPEPEL EAEASKEAEP EPEPEPELEP EAEAEPEPEL  
EPEPDPEPEP DFEERDESED S

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The NOL3 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT, 1mM EDTA and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Nucleolar protein 3 (NOL3) is primarily expressed in the muscle and is appears in the nucleoplasm and concentrated in nucleoli. NOL3 is an anti-apoptotic protein which down-regulates the enzymatic activities of caspase 2, caspase 8 and tumor protein p53. NOL3 is highly expressed in the heart and skeletal muscle. NOL3 is identified at low levels in the placenta, liver, kidney and pancreas. The NOL3 mRNA and protein levels are stimulated by neuronal activity, which is vital in order to promote neuroplasticity, thus indicating a potential role for NOL3 in activity-dependent changes in dendrite function. NOL3 localizes to the cytoskeleton of neuronal cells and seems to colocalize with F-Actin, though it may connect with an actin-associated protein instead of directly with F-Actin.

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