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## Product Data Sheet

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Product Name: NOL3 Human  
 Cat. No.: GP24057  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGNAQER PSETIDRERK RLVETLQADS GLLLDALLAR GVLGTPEYEA LDALPDAERR VRRLLLLLVQG KGEAACQELL RCAQRTAGAP DPAWDWQHVG PGYRDRSYDP PCPGHWTPPEA PGSGTTCPGL PRASDPDEAG GPEGSEAVQS GTPEEPEPEL EAEASKEAEP EPEPEPELEP EAEAEPEPEL EPEPDPEPEP DFEERDESED S.		
Formulation	The NOL3 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT, 1mM EDTA and 10% glycerol.		

### 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

### Background

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.

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