

## NIT2 Human

**Description:** NIT2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 299 amino acids (1-276a.a.) and having a molecular mass of 33kDa. NIT2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-046

**Synonyms:** Nitrilase homolog 2, Nitrilase family member 2, omega-amidase NIT2, MGC111199, Nit protein 2, EC 3.5.1.3.

For research use only.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSMTSFRLA LIQLQISSIK  
SDNVTRACSF IREAATQGAK IVSLPECFNS PYGAKYFPEY AEKIPGESTQ KLSEVAKECS  
IYLIGGSIP EADAGKLYNTC AVFGPDGTL AKYRKIHLFD IDVPGKITFQ ESKTLSPGDS  
FSTFDTPYCR VGLGICYDMR FAELAQIYAQ RGCQLLVYPG AFNLTTGPAH WELLQRSRAV  
DNQVYVATAS PA

**Purity:** Greater than 95% as determined by SDS-PAGE.

### Formulation:

The NIT2 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH 8.0) 1mM DTT, 0.1M NaCl, and 10% glycerol.

### 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:

NIT2 is a member of the nitrilase superfamily. NIT2 protein has an omega-amidase activity which removes potentially toxic intermediates by converting alpha-ketoglutarate and alpha-ketosuccinamate to biologically useful alpha-ketoglutarate and oxaloacetate, respectively. In addition, Nit2 is widely distributed in nature and is thought to be a tumor suppressor protein.

### Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

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