

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
IYLIGGSIPE EDAGKLYNTC AVFGPDGTLL AKYRKIHLFD IDVPGKITFQ ESKTLSPGDS
FSTFDTPYCR VGLGICYDMR FAELAQIY AQ 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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