Recombinant Human Nitrilase Family, Member 2, His-tagged

Cat. No. NIT2-3365H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NIT2 protein, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques. MW = 33 kDa (299aa).
Species	Human
Source	E.coli
Description	Omega-amidase NIT2, also known NIT2, belongs to the nitrilase superfamily. This protein has an omega-amidase activity. The role of omega-amidase is to remove potentially toxic intermediates by converting alpha-ketoglutaramate and alpha-ketosuccinamate to biologically useful alpha-ketoglutarate and oxaloacetate, respectively. Also Nit2, which is widely distributed in nature, has been suggested to be a tumor suppressor protein.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.
Purity	> 95% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MGSMTSFRLA LIQLQISSIK SDNVTRACSF IREA ATQGAK IVSLPECFNS PYGAKYFPEY AEKIPGESTQKLSEVAKECS IYLIGGSIPE EDAGKLYNTC AVFGPDGTLL AKYRKIHLFD IDVPGKITFQ ESKTLSPGDS FSTF

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	DTPYCR VGLGICYDMR FAELAQIYAQ RGCQLLVYPG AFNLTTGPAH WELL QRS RAV DNQVYVATAS PARDDKASYV AWGHSTVVNP WGEVLAKAGT EEAI VYSDI DLKKLAEIRQQ IPVFRQKRSD LYAVEMKKP.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Alanine, aspartate and glutamate metabolism

GENE INFORMATION

Gene Name	NIT2 nitrilase family, member 2 [Homo sapiens]
Synonyms	Nitrilase Family, Member 2; MGC111199; NIT2; omega-amidase NIT2; Nit protein 2; nitrilase homolog 2; Nitrilase homolog 2; EC 3.5.1.3
Gene ID	56954
mRNA Refseq	NM_020202
Protein Refseq	NP_064587
UniProt ID	Q9NQR4
Chromosome Location	3q12.2
Function	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds; molecular_function; omega-amidase activity

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