

**AR09759PU-L****Human NIT2 (1-276, His-tag) - Purified****Alternate names:**

Nitrilase homolog 2

**Quantity:**

0.25 mg

**Concentration:**

1.0 mg/ml (determined by Bradford assay)

**Background:**

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-ketoglutarate 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.

**Uniprot ID:**[Q9NQR4](#)**NCBI:**[NP\\_064587](#)**GeneID:**[56954](#)**Species:**

Human

**Source:**

E. coli

**Format:****State:** Liquid purified protein**Purity:** >95%**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl**Description:**

Recombinant human NIT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**AA Sequence:**

MGSSHHHHHH SSGLVPRGSH MGSMTSFRLA LIQLQISSIK SDNVTRACSF IREAAATQGAK  
IVSLPECFNS PYGAKYFPEY AEKIPGESTQ KLSEVAKECS IYLLIGGSIPEDAGKLYNTC  
AVFGPDGTL AKYRKIHLFD IDVPGKITFQ ESKTSLSPGDS FSTFDTPYCR VGLGICYDMR  
FAELAQIY AQ RGCQLLVYPG AFNLTTGPAH WELLRQSRV DNQVYVATAS PARDDKASYV  
AWGHSTVVNP WGEVLAKAGT EEAIVYSDID LKKLAEIRQQ IPVFRQKRS D LYAVEMKKP

**Molecular weight:** kDa (299aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

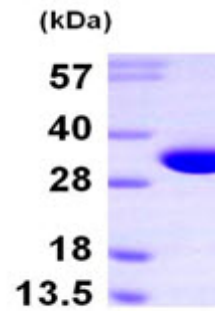
**General Readings:**

Barqliw K T., et al. (2008) Biochemistry. 47(51):13514-23.

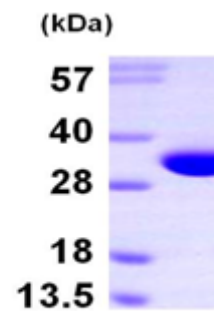
Camarqo A., et al. (2007) Plant Cell. 19(11):3491-503.

Pictures:

Recombinant human NIT2, 1- 276 aa, His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)