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Recombinant human NIT2 protein

Catalog Number: ATGP0819

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-276aa

UniProt No.
Q9NQR4

NCBI Accession No.
NP_064587

Alternative Names
Omega-amidase NIT2, Nitrilase homolog 2

PRODUCT SPECIFICATION

Molecular Weight
33 kDa (299aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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Amino acid Sequence

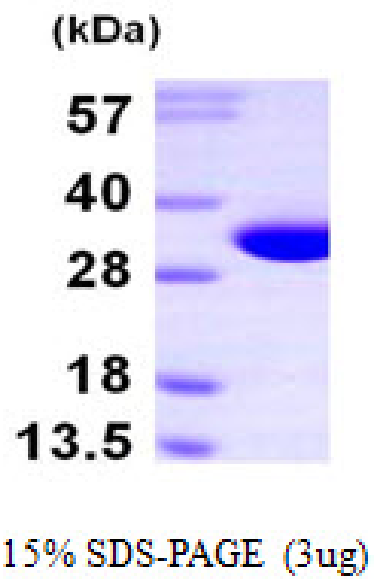
MGSSHHHHHH SSGLVPRGSH MGSMTSFRLA LIQLQISSIK SDNVTRACSF IREAATQGAK IVSLPECFNS PYGAKYFPEY AEKIPGESTQ KLSEVAKECS IYLIGGSIPE EDAGKLYNTC AVFGPDGTLL AKYRKIHLFD IDVPGKITFQ ESKTLSPGDS FSTFDTPYCR VGLGICYDMR FAELAQIYAQ RGCQLLVYPG AFNLTTGPAH WELLQRSRAV DNQVYVATAS PARDDKASYV AWGHSTVVNP WGEVLAKAGT EEAIVYSDID LKKLAEIRQQ IPVFRQKRSD LYAVEMKKP

General References

Barqliw K T., et al. (2008) Biochemistry. 47(51):13514-23.
Camarqo A., et al. (2007) Plant Cell. 19(11):3491-503.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.