

Recombinant Human NIT1 Protein, C-His tagged

Cat. No. NIT1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NIT1 Protein with C-His tag was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene encodes a member of the nitrilase protein family with homology to bacterial and plant nitrilases, enzymes that cleave nitriles and organic amides to the corresponding carboxylic acids plus ammonia. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Liquid
Molecular Mass	~ 35.7 kDa
AA Sequence	MLGFITRPPHRFLSLLCPGLRIPQLSVLCAQPRPRAMAISSSSCELPLVAVCQVTSTP DKQQNFKTCVELVREAARLGACLAFLPEAFDFIARDPAETLHLSEPLGGKLL E E Y T Q L ARECGLWLSLGGFHERGQDWEQTQKIYNCHVLLNSKGAVVATYRKTHLCDVEIPG QGPMCESNSTMPGPSLESPVSTPAGKIGLAVCYDMRFPELSLALAQAGAEILTYP SAFGSITGPAHWEVLLRARAIETQCYVVAAAQCGRHHEKRASYGHSMVDPWGT VVARCSEGPGLCLARIDLNYLRQLRRHLPVFQHRRPDLYGNLGHPLS
Purity	> 85% by SDS-PAGE
Storage	Short Term Storage at +4 centigrade. Long Term Storage at -20 to -80 centigrade,

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please prepare aliquots and store at -20 to -80 centigrade. Avoid freeze/thaw cycles.

Storage Buffer 50mM Tris- HCl, pH7.4, 200mM NaCl, 10% glycerol

GENE INFORMATION

Gene Name NIT1 nitrilase 1 [Homo sapiens (human)]

Official Symbol NIT1

Synonyms NIT1; nitrilase 1; nitrilase homolog 1; MGC57670;

Gene ID 4817

mRNA Refseq NM_001185092

Protein Refseq NP_001172021

MIM 604618

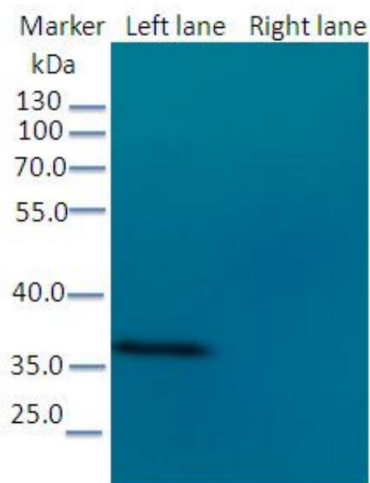
UniProt ID Q86X76

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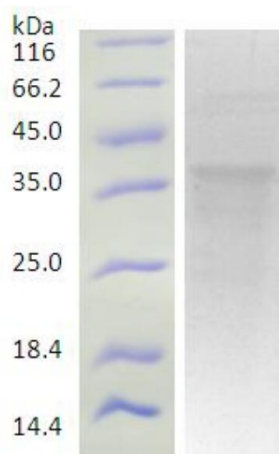
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**Western blotting
analysis of human
NIT1 expressing in
HEK293F cell lysates
by using anti-His
monoclonal antibody**



HEK293F cells were transfected with the pCMV-control (Right lane) or pCMV-NIT1 (Left lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 µg per lane) were separated by SDS-PAGE and immunoblotted with anti-His tag.

**15% SDS-PAGE
analysis profiles of
human purified NIT1
(CBB stained)**

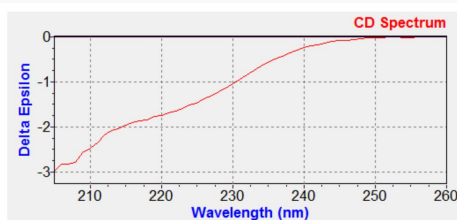


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**Circular dichroism
spectra of purified
human NIT1**



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