

Recombinant Human NTAN1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NTAN1-6248H Lot. No. (See product label)

SPECIFICATION

Product Overview

NTAN1 MS Standard C13 and N15-labeled recombinant protein (NP_775745) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

The protein encoded by this gene functions in a step-wise process of protein degradation through the N-end rule pathway. This protein acts as a tertiary destabilizing enzyme that deamidates N-terminal L-Asn residues on proteins to produce N-terminal L-Asp. L-Asp substrates are subsequently conjugated to L-Arg, which is recognized by specific E3 ubiquitin ligases and targeted to the proteasome. Pseudogenes of this gene are located on the long arms of chromosomes 8, 10 and 12. Alternative splicing results in multiple transcript variants that encode different protein isoforms.

Molecular Mass

34.7 kDa

AA Sequence

MPLLVEGRRVRLPQSAGDLVRAHPPLEERARLLRGQSVQQVGPQGLLYVQQRELA
VTSPKDGSISILGSDATTCHIVVLRHTGNGATCLTHCDGTDTKAEVPLIMNSIKSFSD
HAQCGRLEVHLVGGFSDDRQLSQKLTHQLLSEFDRQEDDIHLVTLCVTELNDREEN
ENHFPVIYGIAVNIKTAEIYRASFDQDRGPEEQLRARTLAGGPMISIYDAETEQLRIGP
YSWTPFPVDFWLHQDDKQILENLSTSPLAEPHFVEHIRSTLMFLKKHPSPAHTLF

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SGNKALLYKKNEDGLWEKISSPGSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [NTAN1 N-terminal asparagine amidase \[Homo sapiens \(human\) \]](#)

Official Symbol [NTAN1](#)

Synonyms NTAN1; N-terminal asparagine amidase; protein N-terminal asparagine amidohydrolase; PNAA; PNAD; protein NTN-amidase; protein N-terminal Asn amidase; N-terminal asparagine amidohydrolase; protein NH2-terminal asparagine deamidase; protein NH2-terminal asparagine amidohydrolase; DKFZp666E058;

Gene ID [123803](#)

mRNA Refseq [NM_173474](#)

Protein Refseq [NP_775745](#)

MIM [615367](#)

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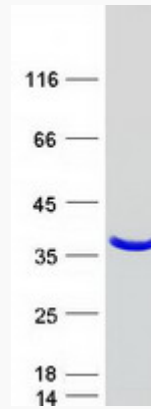
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UniProt ID

Q96AB6

SDS-PAGE



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