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 VTSPKDGSISILGSDDATTCHIVVLRHTGNGATCLTHCDGTDTKAEVPLIMNSIKSFSD HAQCGRLEVHLVGGFSDDRQLSQKLTHQLLSEFDRQEDDIHLVTLCVTELNDREEN ENHFPVIYGIAVNIKTAEIYRASFQDRGPEEQLRAARTLAGGPMISIYDAETEQLRIGP YSWTPFPHVDFWLHQDDKQILENLSTSPLAEPPHFVEHIRSTLMFLKKHPSPAHTLF

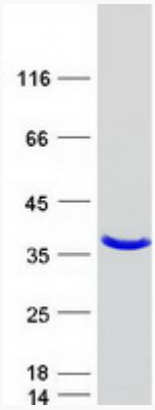
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	SGNKALLYKKNEDGLWEKISSPGSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. 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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UniProt ID	Q96AB6
SDS-PAGE	

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