

Recombinant Mouse Ntan1 Protein, Myc/DDK-tagged

Cat. No. Ntan1-4518M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length N-terminal Asn amidase (Ntan1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	The protein encoded by this gene functions in a step-wise protein degradation process through the N-end rule pathway. This protein acts as a tertiary destabilizing enzyme that deamidates N-terminal L-Asparagine residues on proteins to produce N-terminal L-Aspartate. L-Aspartate substrates are subsequently conjugated to L-Arginine, which is recognized by specific E3 ubiquitin ligases and targeted to the proteasome. Mice with a knock-out of this gene are viable, fertile, and outwardly normal, but show impairments in spontaneous activity and spatial memory, relative to their wild-type counterparts. Alternative splicing results in multiple transcript variants.
Molecular Mass	34.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Ntan1 N-terminal Asn amidase \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Ntan1](#)

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

Gene ID [18203](#)

mRNA Refseq [NM_010946](#)

Protein Refseq [NP_035076](#)

UniProt ID [Q64311](#)

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