

Product datasheet for **TP727315**

Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Protein N-terminal Glutamine Amidohydrolase/NTAQ1
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Cys205
Tag:	N-GST
Buffer:	Supplied as a 0.2 um filtered solution of PBS, 100mM GSH, 1% TritonX-100, 15% Glycerol, pH 7.4.
Note:	Recombinant Human Protein N-terminal glutamine amidohydrolase is produced by our E.coli expression system and the target gene encoding Met1-Cys205 is expressed with a GST tag at the N-terminus.
Stability:	12 months from date of despatch
Summary:	Human protein N-terminal glutamine amidohydrolase (WDYHV1) is an enzyme that in humans is encoded by the WDYHV1 gene, belongs to the NTAQ1 family. WDYHV1 mediates the side-chain deamidation of N-terminal glutamine residues to glutamate, which is an important step in N-end rule pathway of protein degradation. Conversion of the resulting N-terminal glutamine to glutamate renders the protein susceptible to arginylation, polyubiquitination and degradation as specified by the N-end rule. However, it does not act on substrates with internal or C-terminal glutamine and non-glutamine residues in any position. With the exception of proline, all tested second-position residues on substrate peptides do not greatly influence the activity. In contrast, a proline at position 2, virtually abolishes deamidation of N-terminal glutamine.



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