Recombinant Human Protein N-terminal Glutamine Amidohydrolase/NTAQ1 Protein

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3th Edition

Synonyms: Protein N-terminal glutamine amidohydrolase;WDYHV1;Protein NH2-terminal glutamine deamidase;N-terminal Gln amidase;Nt(Q)-amidase;C8orf32; NTAQ1

Description: 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 andnon-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.

Form:PBS

Molecular Weight:49.8 kDa

Sequences: Met 1-Cys205

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.