Recombinant Human WDYHV1/NTAQ1 Protein (GST Tag)

Catalog Number:PKSH032966

Note: Centrifuge before opening to ensure complete recovery of vial contents.

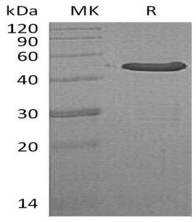
Description

Synonyms	Protein N-terminal glutamine amidohydrolase;WDYHV1;Protein NH2-terminal glutamine deamidase;N-terminal Gln amidase;Nt(Q)-amidase;C8orf32;NTAQ1
Species	Human
Expression Host	E.coli
Sequence	Met 1-Cys205
Accession	AAH08781.1
Calculated Molecular Weight	49.8 kDa
Observed molecular weight	45-50 kDa
Tag	N-GST

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of PBS,100mM GSH,1% TritonX-100,15% Glycerol,pH7.4.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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.