

Recombinant Human WDYHV1/NTAQ1 Protein (GST Tag)

Catalog Number:PKSH032966

DIA • AN[®]
by Elabscience

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

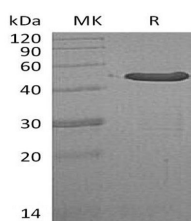
Description

| | |
|------------------------------------|--|
| 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 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.

For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623

Web: www.elabscience.com

Tel: 1-832-243-6086

Email: techsupport@elabscience.com

Fax: 1-832-243-6017