



Recombinant Protein Technical Manual  
Recombinant Human WDYHV1/NTAQ1 Protein (GST  
Tag)  
RPES3244

### Product Data:

**Product SKU:** RPES3244

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q96HA8

### Protein Information:

**Molecular Mass:** 49.8 kDa

**AP Molecular Mass:** 45-50 kDa

**Tag:** N-GST

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg 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% TritonX00, 15% Glycerol, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

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

## Immunogen Information:

**Sequence:** Met 1-Cys205

## 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.