

## UBE2K Protein, Human, Recombinant (His & SUMO)

### General Information

|                       |   |
|-----------------------|---|
| Synonyms:             | Ubiquitin-Conjugating Enzyme E2-25 kDa;Huntingtin-Interacting Protein 2;Ubiquitin-Conjugating Enzyme E2-25K;HIP-2;Ubiquitin Carrier Protein;HIP2;Ubiquitin-Protein Ligase; Ubiquitin-Conjugating Enzyme E2 K;Ubiquitin-Conjugating Enzyme E2(25K);UBE2K |
| Protein Construction: | Met1-Asn200   |
| Species:              | Human   |
| Expression Host:      | E. coli   |
| Accession:            | P61086  |
| Molecular Weight:     | 38 KDa (reducing condition)   |
| AA Sequence:          | Met1-Asn200   |

### QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity:              | Greater than 90% as determined by reducing SDS-PAGE. (QC verified)  |
| Endotoxin:           | < 1.0 EU/μg of the protein as determined by the LAL method.   |
| Formulation:         | Supplied as a 0.2 μm filtered solution of 20 mM PB, 8% Sucrose, 100 mM NaCl, 0.05% Tween 80, pH 7.5.  |

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Ubiquitin-Conjugating Enzyme E2 K (UBE2K) belongs to the E2 Ubiquitin-Conjugating Enzyme family. UBE2K is highly expressed in the brain, with highest levels found in cortex and striatum, and at lower levels in cerebellum and brainstem. UBE2K may mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequent degradation of p53/TP53. UBE2K is associated with the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded luminal proteins. In addition, UBE2K is involved in Alzheimer's disease, Huntington's disease and antigen processing through its interaction with huntingtin, and MHC-heavy chain proteins.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481