

Recombinant Human HIP2/UBE2K Protein (GST Tag)

Catalog No. PKSH033187

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

Description

Synonyms	Ubiquitin-Conjugating Enzyme E2 K;Huntingtin-Interacting Protein 2;HIP-2;Ubiquitin Carrier Protein;Ubiquitin-Conjugating Enzyme E2-25 kDa;Ubiquitin-Conjugating Enzyme E2(25K);Ubiquitin-Conjugating Enzyme E2-25K;Ubiquitin-Protein Ligase;UBE2K;HIP2;LIG
Species	Human
Expression Host	E.coli
Sequence	Met 1-Asn200
Accession	P61086
Calculated Molecular Weight	48.7 kDa
Observed molecular weight	45 kDa
Tag	N-GST
Bioactivity	Not validated for activity

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 50mM HEPES, 150mM NaCl, 2mM DTT, 10% Glycerol, pH 7.5.
Reconstitution	Not Applicable

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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