

Recombinant Human HIP2/UBE2K Protein (GST Tag)

Catalog Number: PKSH033187

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

Description

Species	Human
Source	E.coli-derived Human HIP2/UBE2K protein Met 1-Asn200, with an N-terminal GST
Calculated MW	48.7 kDa
Observed MW	45 kDa
Accession	P61086
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
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.

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.