Recombinant Human Huntingtin Interacting Protein 2

Cat. No. UbcH1-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Huntingtin Interacting Protein 2 produced in E.Coli is a non-glycosylated, Polypeptide chain containing 208 amino acids and having a molecular mass of 23.4 kDa. The UbcH1 protein contains 6xHis tag and is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Among ubiquitin-conjugating enzymes, the mammalian ubiquitin conjugating enzyme UbcH1, also known as HIP2, is unique in its ability to catalyze the in vitro synthesis of unanchored Lys48-linked poly-ubiquitin chains from mono- or poly-ubiquitin, E1, and ATP. In addition, UbcH1 can catalyse the cyclization of longer poly-ubiquitin chains, including tetra- and penta-ubiquitin. Recombinant UbcH1 charges and supports ubiquitinylation in vitro. Typical enzyme concentration to support conjugation in vitro is 100nM to 1μM. Recently, HIP2 (or UbcH1) has been shown to bind to the N terminus of Huntington and may play a role in Huntington disease.
Amino acid sequence	MHHHHHHAMANIAVQRIKREFKEVLKSEETSKNQIKVDLVDENFTELRGEIAGPPD T PYEGGRYQLEIKIPETYPFNPPKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLR T VLLSLQALLAAAEPDDPQDAVVANQYKQNPEMFKQTARLWAHVYAGAPVSSPEYT KKIENLCAMGFDAVIVALSSKSWDVETATELLLSN.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.

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Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Lyophilized from a 0.2 μm filtered concentrated (1 mg/ml) solution in 1X PBS and 1 mM DTT, pH 7.5.
Solubility	It is recommended to reconstitute the lyophilized HIP-2 in sterile water not less than 100 μg/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized HIP-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution UbcH1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Synonyms	Ubiquitin-conjugating enzyme E2-25 kDa; EC 6.3.2.19; Ubiquitin-protein ligase; Ubiquitin carrier protein; E2(25K); Huntingtin-interacting protein 2; HIP-2; HIP2; LIG; HYPG; UBE2K; UbcH1; DKFZp564C1216; DKFZp686J24237; E2-25K; huntingtin interacting protein 2; ubiquitin-conjugating enzyme E2-25K; ubiquitin-conjugating enzyme E2K (UBC1 homolog; yeast); ubiquitin-conjugating enzyme E2-25 KDA; ubiquitin-activating enzyme; ubiquitin:protein-lysine N-ligase (AMP-forming)

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