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California Bioscience

Product Datasheet

Product Name	Ubiquitin-Conjugating Enzyme E2K Human Recombinant
Cata No	CB500515
Source	*Escherichia Coli.*
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, LIG, HYPG, UBE2K, UbcH1.

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 Lys^{48}-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.

Ubiquitin-Conjugating Enzyme E2K Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 208 amino acids and having a molecular mass of 23.4 kDa.

The UBE2K protein contains 6xHis tag and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE

Formulation

Lyophilized from a 0.2µm filtered concentrated (1 mg/ml) solution in

1X PBS and 1mM DTT, pH 7.5.

Stability

Lyophilized HIP-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. U pon reconstitution UBE2K should be stored at 4℃ betwee n 2-7 days and for future use below

-18℃.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MHHHHHHAMANIAVQRIKREFKEVLKSEETSKNQIKVD
LVDENFTELRG
EIAGPPDTPYEGGRYQLEIKIPETYPFNPPKVRFITKIWH
PNISSVTGAICLD
ILKDQWAAAMTLRTVLLSLQALLAAAEPDDPQDAVVAN
QYKQNPEMFK
QTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDAVIVA
LSSKSWDVETA
TELLLSN.

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