

Product Data Sheet

□ Cat # RP-420

Recombinant Human Huntingtin Interacting Protein 2

Size: □ 10 ug

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 catalyze the cyclization of longer poly-ubiquitin chains, including tetra- and penta-ubiquitin. Recombinant UbcH1 charges and supports ubiquitylation *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 Huntingtin and may play a role in Huntington disease.

Source: *Escherichia Coli*. Huntingtin Interacting Protein 2 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 UbcH1 protein contains 6xHis tag and is purified by proprietary chromatographic techniques. Lyophilized from a 0.2µm filtered concentrated (1 mg/ml) solution in 1X PBS and 1mM DTT, pH 7.5.

Application And Suggested Dilutions: It is recommended to reconstitute the lyophilized HIP-2 in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

Storage and 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.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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