

## UbcH1, human recombinant (GST-Tag)

**ALTERNATE NAMES:** UBC1; E2-25k; HIP-2

**CATALOG #:** 4846-10 10 µg  
4846-100 100 µg

**LOT #:** \_\_\_\_\_

**SOURCE:** E. coli

**PURITY:** >95% by SDS-PAGE

**MOL. WEIGHT:** 22.4 kDa (untagged)

**PHYSICAL APPEARANCE:** Liquid

**FORMULATION:** Supplied at a concentration of 1.0 mg/ml in 20 mM TBS, pH 7.5 containing 1.0 mM DTT.

### STORAGE CONDITIONS:

At -80°C. Avoid multiple freeze-thaw cycles. After initial thawing, aliquot into individual tubes and re-freeze at -80°C.

### DESCRIPTION:

Among ubiquitin-conjugating enzymes, the mammalian ubiquitin conjugating enzyme UbcH1, 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 ubiquitinylation *in vitro*. Typical enzyme concentration to support conjugation *in vitro* is 100 nM to 1 µM.

### RELATED PRODUCTS:

- Calpain Inhibitor I, ALLN (**Cat. No. 1834-5, 25**)
- Calpain Inhibitor II, ALLM (**Cat. No. 1834-5, 25**)
- Clasto-Lactacystin β-Lactone (**Cat. No. 1710-100**)
- E6AP Antibody (**Cat. No. 3744-100**)
- (-)-Epigallocatechin gallate (**Cat. No. 1841-50**)
- Isopeptidase T (short form), human recombinant (**Cat. No. 4861-25**)
- Isopeptidase T (long form), human recombinant (**Cat. No. 4862-25**)
- Lactacystin (**Cat. No. 1709-200**)
- MG-115 (**Cat. No. 1831-1, 5**)
- MG-132 (**Cat. No. 1703-5, 25**)
- PS-341 (**Cat. No. 1846-1,5**)
- EZSolution™ MG-132 (**Cat. No. 1791-5**)
- NEDD8-AMC (**Cat. No. 4843-25**)
- Proteasome Substrate, Fluorogenic (**Cat. No. 1832-1, 5**)
- Suc-Leu-Leu-Val-Tyr-AMC (**Cat. No. 1833-5**)
- UbcH1, human recombinant (GST-tag) (**Cat. No. 4846-100**)
- UbcH2, human recombinant (His-tag) (**Cat. No. 4848-100**)
- UbcH3, human recombinant (His-tag) (**Cat. No. 4849-100**)
- UbcH5a, human recombinant (His-tag) (**Cat. No. 4851-100**)
- UbcH5b, human recombinant (His-tag) (**Cat. No. 4852-100**)
- UbcH5c, human recombinant (His-tag) (**Cat. No. 4854-100**)
- Ubiquitin Aldehyde (**Cat. No. 4845-50**)
- Ubiquitin, human recombinant (**Cat. No. 4841-100,1000**)
- Ubiquitin AMC (**Cat. No. 4842-25**)
- UCH-L1, human recombinant (GST-tag) (**Cat. No. 4855-50**)
- USP7 Antibody (**Cat. No. 3737-100**)
- USP-14 Inhibitor IU1 (**Cat. No. 1845-5, 25**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**