

UBE2E3, 1-207aa, Human, His tag, E.coli

Cat.NO.: TP04383

3th Edition

Synonyms: Ubiquitin-conjugating enzyme E2 E3, UBCH9; UbcM2

Description: UBE2E3 also known as Ubiquitin-conjugating enzyme E2 E3 is a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is required for the destruction of mitotic cyclins and for cell cycle progression. The ubiquitination process covalently attaches ubiquitin, a short protein of 76 amino acids, to a lysine residue on the target protein. Once a protein has been tagged with one ubiquitin molecule, additional rounds of ubiquitination form a polyubiquitin chain that is recognized by the proteasome's 19S regulatory particle, triggering the ATP-dependent unfolding of the target protein that allows passage into the proteasome's 20S core particle, where proteases degrade the target into short peptide fragments for recycling by the cell. Recombinant human UBE2E3, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid, In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT

Molecular Weight: 25.3kDa (230aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMSSDRQRSDDDESPSTSSGSSDADQRDPAAPEPEEQEERKPSATQQKKNT
KLSSKTTAKLSTSAKRIQKELAEITLDPNCSAGPKGDNIYEW RSTILGPPGSVYEGGVFFLDITFSSDYPFKPPKVT
FRTRIYHCNINSQGVICLDILKDNWSPALTISKVLLSICLLTDCNPADPLVGSATQYLTNRAEHDRIARQWTKRYAT

Purity: > 95% by HPLC

Concentration: 1mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.