

## UBE2S Human

**Description:**UBE2S Human Recombinant fused with 36 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 258 amino acids (1-222 a.a.) and having a molecular mass of 27.9kDa. The UBE2S is purified by proprietary chromatographic techniques.

**Catalog #:**ENPS-451

For research use only.

**Synonyms:**Ubiquitin-conjugating enzyme E2 S, Ubiquitin-protein ligase S, Ubiquitin carrier protein S, Ubiquitin-conjugating enzyme E2-24 kDa, E2-EPF5, E2-EPF, UBE2S, E2EPF, EPF5.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMNSN  
VENLPPIIR LVYKEVTTLT ADPPDGKVF PNEEDLTDLQ VTIEGPEGTP YAGGLFRMKL  
LLGKDFPASP PKGYFLTKIF HPNVGANGEI CVNVLKRDWT AELGIRHVLL TIKCLLIHPN  
PESALNEEAG RLLLENYEEY AARARLLTEI HGGAGGPSGR AEAGRALASG TEASSTDPGA  
PGGPGGAEGP MA

**Purity:**Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The UBE2S solution contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT and 20% glycerol. Stability: UBE2S although stable at 4°C for 4 weeks, should be stored desiccated 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Ubiquitin-conjugating enzyme E2S (UBE2S) belongs to the ubiquitin-conjugating enzyme family. UBE2S is able to form a thiol ester linkage with ubiquitin in a ubiquitin activating enzyme-dependent manner, a typical property of ubiquitin carrier proteins. UBE2S catalyzes the covalent attachment of ubiquitin to other proteins. UBE2S acts as a crucial factor of the anaphase promoting complex/cyclosome (APC/C), which is a cell cycle-regulated ubiquitin ligase that controls progression through mitosis. UBE2S acts by purposely elongating 'Lys-11'-linked polyubiquitin chains initiated by the E2 enzyme UBE2C/UBCH10 on APC/C substrates, augmenting the degradation of APC/C substrates by the proteasome and promoting mitotic exit. UBE2S also acts by elongating ubiquitin chains initiated by the E2 enzyme UBE2D1/UBCH5 in vitro; it is nevertheless uncertain whether UBE2D1/UBCH5 acts as an E2 enzyme for the APC/C in vivo. UBE2S is also involved in ubiquitination and consequent degradation of VHL, resulting in an accumulation of HIF1A.

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