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**Product Data Sheet**


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Product Name: UBE2S Human

Cat. No.: GP22367

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSNSN VENLPPHIIR LUYKEVTTLT ADPPDGKVF PNEEDLTDLQ VTIEGPEGTP YAGGLFRMKL LLGKDFPASP PKGYFLTKIF HPNVGANGEI CVNVLKRDWI AELGIRHVLL TIKCLLIHPN PESALNEEAG RLLLENYEEY AARARLLTEI HGGAGGPSGR AEAGRALASG TEASSTDPGA PGGPGAEGP MAKKHAGERD KKLAAKKKTD KKRALRRL.		
Formulation	The UBE2S solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT and 20% glycerol.		

**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

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accumulation of HIF1A.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

UBE2S Human Recombinant fused with a 36 amino acids 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.

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