UBE2S Protein, Human (GST)

Cat. No.:	HY-P71408
Synonyms:	Ubiquitin-Conjugating Enzyme E2 S; E2-EPF; Ubiquitin Carrier Protein S; Ubiquitin-Conjugating Enzyme E2-24 kDa; Ubiquitin-Conjugating Enzyme E2-EPF5; Ubiquitin-Protein Ligase S; UBE2S; E2EPF
Species:	Human
Source:	E. coli
Accession:	Q16763 (M1-L222)
Gene ID:	27338
Molecular Weight:	Approximately 50.0 kDa

PROPERTIES

AA Sequence	M N S N V E N L P P H I I R L V Y K E V T T L T A D P P D G I K V F P N E E D L T D L Q V T I E G P E G T P Y A G G L F R M K L L L G K D F P A S P P K G Y F L T K I F H P N V G A N G E I C V N V L K R D W T A E L G I R H V L L T I K C L L I H P N P E S A L N E E A G R L L L E N Y E E Y A A R A R L L T E I H G G A G G P S G R A E A G R A L A S G T E A S S T D P G A P G G P G G A E G P M A K K H A G E R D K K L A A K K K T D K K R A L R R L
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 50 mM HEPES, 150 mM NaCl, 2 mM DTT, 10% Glycerol, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	UBE2S, a pivotal player in cellular ubiquitination processes, accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to various proteins. A key contributor to cell cycle regulation, UBE2S catalyzes 'Lys-11'-linked polyubiquitination, particularly as an essential factor of the anaphase promoting complex/cyclosome (APC/C). In this context, UBE2S plays a crucial role in mitotic progression by specifically elongating 'Lys-11'-linked polyubiquitin chains initiated by the E2 enzyme UBE2C/UBCH10 on APC/C substrates, leading to enhanced degradation of these substrates by

the proteasome and facilitating mitotic exit. Additionally, UBE2S is implicated in the ubiquitination and subsequent degradation of VHL, resulting in the accumulation of HIF1A. In vitro studies reveal UBE2S's ability to promote polyubiquitination using all seven ubiquitin Lys residues, except for 'Lys-48'-linked polyubiquitination, underscoring its versatility in ubiquitin chain formation.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA