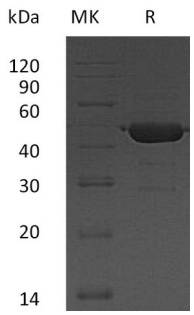
Product Name: Recombinant Human UBE2G2 (N-GST)
Catalog #: PEH1764

Summary

Name	UBE2G2/Ubiquitin-conjugating enzyme E2 G2
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Ubiquitin-Conjugating Enzyme E2 G2 is produced by our E.coli expression system and the target gene encoding Met1-Leu165 is expressed with a GST tag at the N-terminus.
Accession #	P60604
Host	E.coli
Species	Human
Predicted Molecular Mass	45 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 50mM HEPES, 150mM NaCl, 2mM DTT, 10% Glycerol, pH 7.5.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names	Ubiquitin-Conjugating Enzyme E2 G2; Ubiquitin Carrier Protein G2; Ubiquitin-Protein Ligase G2; UBE2G2
Background	Ubiquitin-Conjugating Enzyme E2 G2 (UBE2G2) is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation, which belong to the

ubiquitin-conjugating enzyme family. It shares 60% and 100% sequence identity with S.cerevisiae Ubc7 and mouse respectively. The UBE2G2 enzyme and the GP78 E3 ligase are active components of endoplasmic reticulum-associated degradation pathway which is essential for the degradation of misfolded ER proteins. The mechanism of K48-linked poly-ubiquitination by UBE2G2/GP78 appears to involve the transfer of preassembled Ub chains from UBE2G2 to lysine residues in a substrate. The E2 and E3 enzymes form a large hetero-oligomer which brings multiple UBE2G2 molecules into close proximity which allows for Ub transfer between neighboring E2s.

Note

For Research Use Only , Not for Diagnostic Use.