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Recombinant Human UBE2G2 Protein (GST Tag)

PKSH033184 Catalog No.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Ubiquitin-Conjugating Enzyme E2 G2; Ubiquitin Carrier Protein G2; Ubiquitin-**Synonyms**

Protein Ligase G2;UBE2G2

Species Human **Expression Host** E.coli

Sequence Met 1-Leu165

P60604 Accession Calculated Molecular Weight 45.0 kDa Observed molecular weight 43 kDa N-GST Tag

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

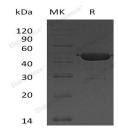
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of 50mM HEPES, 150mM NaCl, 2mM DTT,

10% Glycerol, pH 7.5.

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Ubiquitin-Conjugating Enzyme E2 G2 (UBE2G2) is an important cellular mechanism for targeting abnormal or shortlived 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

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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.

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