Recombinant Human UBE2A Protein (His Tag)

Catalog Number:PKSH030787

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

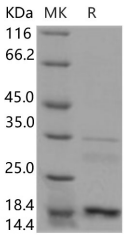
Description

Synonyms	Ubiquitin-Conjugating Enzyme E2 A;RAD6 Homolog A;HR6A;hHR6A;Ubiquitin Carrier Protein A;Ubiquitin-Protein Ligase A;UBE2A;RAD6A
Species	Human
Expression Host	E.coli
Sequence	Met 1-Cys 152
Accession	P49459
Calculated Molecular Weight	19.2 kDa
Observed molecular weight	18.5 kDa
Tag	N-His

Properties

Purity	> 80 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, 20% glycerol, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 80 % as determined by reducing SDS-PAGE.

Background

Ubiquitin-conjugating enzyme E2 A (also known as HHR6A or UBE2A); encoded by human DNA repair genes HHR6A; belongs to the ubiquitin-conjugating enzymes (E2 enzymes) family and is likely to be involved in postreplication repair and induced mutagenesis. UBE2A is described as a CDK2 substrate. It is the human homologue of the product of the Saccharomyces cerevisiae RAD6 / UBC2 gene; a member of the family of ubiquitin-conjugating enzymes. In vivo; HHR6A phosphorylation peaks during the G2/M phase of cell cycle transition; with a concomitant increase in histone H2B ubiquitylation. Mutation of Ser120 to threonine or alanine abolished UBE2A activity; while mutation to aspartate to mimic phosphorylated serine increased UBE2A activity 3-fold. A mutation of UBE2A is consisdered as the cause of a

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novel X-linked mental retardation (XLMR) syndrome that affects three males in a two-generation family.

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