Recombinant Human UBE2A Protein (His Tag)

Catalog Number: PKSH030787

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

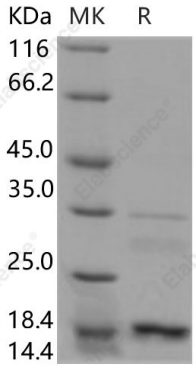
Description

Species	Human
Source	E.coli-derived Human UBE2A protein Met 1-Cys 152, with an N-terminal His
Calculated MW	19.2 kDa
Observed MW	18.5 kDa
Accession	P49459
Bio-activity	Not validated for activity

Properties

Purity	> 80% as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
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 sterile PBS, 20% glycerol, pH 7.5 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.

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

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