Recombinant Human APC Protein (His Tag)

Catalog Number: PDEH100955

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

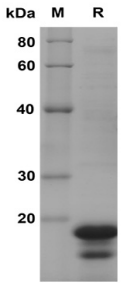
Description

Species	Human
Source	E.coli-derived Human APC protein Pro2712-Val2843, with an N-terminal His
Calculated MW	14.41 kDa
Observed MW	18 kDa
Accession	P25054
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human APC proteins, 2 μg/lane of Recombinant Human APC proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 18 kDa.

Background

APC is a ubiquitous, tumor-suppressor protein that is mutated in most colon cancers, generally resulting in a gene product that is truncated in the carboxy terminal region. APC contains several binding domains. The region used as an immunogen overlaps the EB1, DLG (PDZ sequence), and PSD-93 domains. These domains bind microtubules, mitotic spindles, and F-actin and are involved in cell cycle, division, and migration. The immunogen does not include the beta-catenin-binding region, which antagonizes Wnt signaling. The human APC amino acid sequence used as immunogen is 83% and 86% identical to mouse and rat APC, respectively.

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