Recombinant Human E2F2 protein (His Tag)

Catalog Number: PDEH101062

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

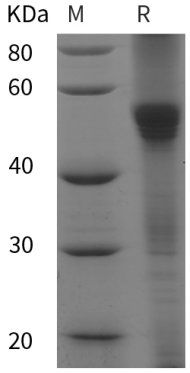
Description

Species	Human
Source	E.coli-derived Human E2F2 protein Ala65-Asn437, with an N-terminal His
Calculated MW	40.9 kDa
Observed MW	55 kDa
Accession	Q14209
Bio-activity	Not validated for activity

Properties

Purity	> 95% 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 ℃. 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 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



> 95 % as determined by reducing SDS-PAGE.

Background

E2F-2 (viral E2-associated factor 2) is a 50 55 kDa member of the E2F/DP family of transcription factors. It is principally expressed by placenta, and forms a DNA activating E2F heterodimeric complex with DP-1 or-2. This complex, when activ e, promotes cell cycle progression. In quiescent cells, association with the retinoblastoma-tumor suppressor gene product termed pRB suppresses its activity. Human E2F 2 is 437 amino acids (aa) in length and contains a CDK2 binding region (aa 65 105), a DNA binding domain (aa 107 196), a dimerization segment (aa 197 289), a transactivation region (aa 359 437), and a pRB binding domain (aa 410 427). There are two potential alternate start sites at Met197 and Met342, and one splice variant that shows a two aa substitution for aa 349 437. Over aa 308 437, human E2F-2 is 72% aa identical to mouse E2F-2.

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