Recombinant E2F2 protein (His tag)

Catalog Number	542667
Synonyms	E2F-2
Species	Human
Expression System	E. coli
Accession	Q14209
Molecular Weight	Predictes a molecular mass of 22.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	129-306
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 129-306 aa (Q14209) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant human Transcription factor E2F2 (E2F-2) fragment (residues 129-306), a stable and soluble protein unit designed for structural and biochemical studies. This fragment enables researchers to investigate the mechanisms of E2F2 in cell cycle regulation and DNA replication without the complexities of the full-length protein. Transcription factor E2F2 is a key regulatory protein in human cells that functions as a transcription activator. It binds cooperatively with DP proteins to the E2 recognition site (5'-TTTC[CG]CGC-3') in promoter regions of genes involved in cell cycle progression and DNA replication. The DRTF1/E2F complex, which includes E2F2, plays a critical role in driving the transition from the G1 to S phase of the cell cycle. E2F2 specifically interacts with the retinoblastoma protein (RB1) in a cell-cycle-dependent manner and is localized to the nucleus, where it regulates gene expression essential for cellular proliferation.