

Recombinant Human E2F4 protein, His-tagged

Cat. No. E2F4-12248H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human E2F4 protein(NP_001941)(1-413 aa), fused to N-termina His-tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-413 aa
Description	The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein binds to all three of the tumor suppressor proteins pRB, p107 and p130, but with higher affinity to the last two. It plays an important role in the suppression of proliferation-associated genes, and its gene mutation and increased expression may be associated with human cancer.
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ ,17mM

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	NaH ₂ PO ₄ , 68mM NaCl, pH7.). 5 % trehalose and 5 % mannitol are added as protectants before lyophilization.
Bio-activity	Not tested.
AA Sequence	MAEAGPQAPPPGTPSRHEKSLGLLTTKFVSLQEAQDGVLDLKLAAADTLAVRQKR RIYDITNVLEGIGLIEKSKNSIQWKGVGPGCNTREIADKLIELKAEIEELQQREQELD QHKVWVQQSIRNVTEVDQNSCLAYVTHEDICRCFAGDTLLAIRAPSGTSLEVPIPEG LNGQKKYQIHLKSVSGPIEVLLVNKEAWSSPPVAVPVPPPEDLLQSPSAVSTPPPLP KPALAQSQEASRPNSPQLTPTAVPGSAEVQGMAGPAAEITVSGGPGTDSKDSGELS SLPLGPTTLDTRPLQSSALLDSSSSSSSSSSSSSSNSNSSSSSGPNPSTSFEPKADPT GVLELPKELSEIFDPTRECMSSELLEELMSSEVFAPLLRLSPPPGDHDIYNLDESEG VCDLFDVPVLNL
Purity	85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Stability	Store for up to 12 months at -20°C to -80°C as lyophilized powder.
Storage	Short-term storage: Store at 2-8°C for (1-2 weeks). Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Reconstitution	Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage. Reconstitution with 200 µl 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.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature (see below).

GENE INFORMATION

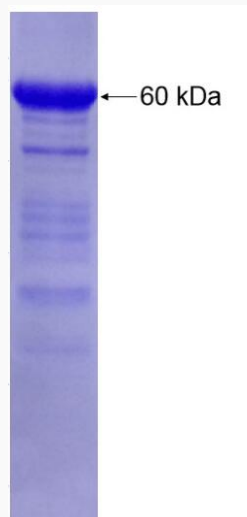
Gene Name	E2F4 E2F transcription factor 4, p107/p130-binding [Homo sapiens]
Official Symbol	E2F4
Synonyms	E2F4; E2F transcription factor 4, p107/p130-binding; transcription factor E2F4; E2F 4; p107/p130-binding protein; E2F-4;
Gene ID	1874
mRNA Refseq	NM_001950
Protein Refseq	NP_001941
MIM	600659
UniProt ID	Q16254

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**SDS-PAGE of E2F4-
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