

**Biotinylated E2F1-S357 Phospho Peptide**  
**Synthetic Peptide**  
**Catalog # SP2083b**

## Specification

## Biotinylated E2F1-S357 Phospho Peptide - Product Information

## Primary Accession Sequence

Q01094  
**Biotin-PLLSRMG(pS)LRAPVDE**

### Biotinylated E2F1-S357 Phospho Peptide - Additional Information

**Gene ID 1869**

## Other Names

Transcription factor E2F1, E2F-1, PBR3, Retinoblastoma-associated protein 1, RBAP-1, Retinoblastoma-binding protein 3, RBBP-3, pRB-binding protein E2F-1, E2F1, RBBP3

## Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

## Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

## Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### Biotinylated E2F1-S357 Phospho Peptide - Protein Information

**Name** E2F1 {ECO:0000303|PubMed:8964493, ECO:0000312|HGNC:HGNC:3113}

## Function

Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication (PubMed:<a href="http://www.uniprot.org/citations/10675335" target="\_blank">10675335</a>, PubMed:<a href="http://www.uniprot.org/citations/12717439" target="\_blank">12717439</a>, PubMed:<a href="http://www.uniprot.org/citations/17704056" target="\_blank">17704056</a>, PubMed:<a href="http://www.uniprot.org/citations/17050006" target="\_blank">17050006</a>, PubMed:<a href="http://www.uniprot.org/citations/18625225" target="\_blank">18625225</a>, PubMed:<a href="http://www.uniprot.org/citations/28992046" target="\_blank">28992046</a>). The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase (PubMed:<a href="http://www.uniprot.org/citations/10675335" target="\_blank">10675335</a>, PubMed:<a href="http://www.uniprot.org/citations/12717439" target="\_blank">12717439</a>, PubMed:<a href="http://www.uniprot.org/citations/17704056" target="\_blank">17704056</a>). E2F1 binds preferentially RB1 in a cell-cycle dependent manner (PubMed:<a href="http://www.uniprot.org/citations/10675335" target="\_blank">10675335</a>, PubMed:<a href="http://www.uniprot.org/citations/12717439" target="\_blank">12717439</a>, PubMed:<a href="http://www.uniprot.org/citations/17704056" target="\_blank">17704056</a>).

[17704056](http://www.uniprot.org/citations/17704056)). It can mediate both cell proliferation and TP53/p53- dependent apoptosis (PubMed: [8170954](http://www.uniprot.org/citations/8170954)). Blocks adipocyte differentiation by binding to specific promoters repressing CEBPA binding to its target gene promoters (PubMed: [20176812](http://www.uniprot.org/citations/20176812)). Directly activates transcription of PEG10 (PubMed: [17050006](http://www.uniprot.org/citations/17050006), PubMed: [18625225](http://www.uniprot.org/citations/18625225), PubMed: [28992046](http://www.uniprot.org/citations/28992046)). Positively regulates transcription of RRP1B (PubMed: [20040599](http://www.uniprot.org/citations/20040599)).

**Cellular Location**

Nucleus

**Biotinylated E2F1-S357 Phospho Peptide - Images**