Recombinant Human SP3, MYC/DDK-tagged

Cat. No. SP3-104H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SP3, fused to C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene belongs to a family of Sp1 related genes that encode transcription factors that regulate transcription by binding to consensus GC- and GT-box regulatory elements in target genes. This protein contains a zinc finger DNA-binding domain and several transactivation domains, and has been reported to function as a bifunctional transcription factor that either stimulates or represses the transcription of numerous genes. Transcript variants encoding different isoforms have been described for this gene, and one has been reported to initiate translation from a non-AUG (AUA) start codon. Additional isoforms, resulting from the use of alternate downstream translation initiation sites, have also been noted. A related pseudogene has been identified on chromosome 13.
Molecular Mass	81.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	SP3 Sp3 transcription factor [Homo sapiens (human)]
Official Symbol	SP3
Synonyms	Sp3 transcription factor; SP3; SPR2; DKFZp686O1631; SPR-2; specificity protein 3; GC-binding transcription factor Sp3; DKFZp686O1631
Gene ID	6670
mRNA Refseq	NM_003111
Protein Refseq	NP_003102
MIM	601804
UniProt ID	Q02447
Chromosome Location	2q31
Pathway	Regulation of Telomerase; SIDS Susceptibility Pathways; Selenium Metabolism and Selenoproteins
Function	RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of transcription; RNA polymerase II core promoter sequence-specific DNA binding; chromatin binding

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