Active Recombinant Human SP1, HA & Flag-tagged

Cat. No. SP1-2093H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SP1, fused to a HA- and a FLAG-tag, was expressed in insect cells (Schneider SL2 cells).
Species	Human
Source	Insect Cells
Description	The protein encoded by this gene is a zinc finger transcription factor that binds to GC-rich motifs of many promoters. The encoded protein is involved in many cellular processes, including cell differentiation, cell growth, apoptosis, immune responses, response to DNA damage, and chromatin remodeling. Post-translational modifications such as phosphorylation, acetylation, glycosylation, and proteolytic processing significantly affect the activity of this protein, which can be an activator or a repressor. Three transcript variants encoding different isoforms have been found for this gene.
Form	Liquid. In 50mM TRIS-HCl, pH 7.9, containing 420mM KCl, 0.1% NP-40, 12.5mM MgCl2 and 20% glycerol.
Bio-activity	0.5BFU/µl (band forming units). 1BFU is sufficient to generate a strong band shift with a labelled oligonucleotide.
Applications	EMSA promoter characterization, analysis of nuclear extracts (oligonucleotides and recombinant protein serve as a positive control).

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Quality Control Test	Sufficient for performing at least 25 protein-DNA interaction experiments in 10mM HEPES, pH 7.9, 0.1mM EDTA, 8.5% glycerol, 170mM KCl, 1μM ZnSO4, 37.5μg/ml Poly dIdC, 10mM DTT and 1mg/ml BSA, analyzed by gel shift assay.
Storage	80oC. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	SP1 Sp1 transcription factor [Homo sapiens (human)]
Official Symbol	SP1
Synonyms	SP1; Sp1 transcription factor; Sp1 transcription factor; specificity protein 1; TSFP1; Transcription factor Sp1
Gene ID	6667
mRNA Refseq	NM_003109
Protein Refseq	NP_003100
MIM	189906
UniProt ID	P08047
Chromosome Location	12q13.1
Pathway	Huntington"s disease; TGF-beta signaling pathway
Function	RNA polymerase II transcription factor activity; double-stranded DNA binding; histone

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	deacetylase binding; metal ion binding; promoter binding; protein C-terminus binding; protein homodimerization activity; transcription activator activity; transcription factor activity; zinc ion binding

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