

Active Recombinant Human Sp3 Transcription Factor, FLAG-tagged

Cat. No. SP3-2094H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Sp3 Transcription Factor along with FLAG tag is expressed in <i>SL2 cells</i> . The molecular weight of the recombinant human Sp3 is 81.9 kDa and contains 781 amino acids.
Species	Human
Source	SL2
Description	SP3 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.
Purity	> 50% by SDS-PAGE.
Activity	>0.5 BFU/ μ (band forming units) 1BFU is sufficient to generate a strong band shift with a labelled oligonucleotide.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Quantity	Sufficient for performing at least 25 protein-DNA interaction experiments in 10 mM HEPES (pH 7.9), 0.1 mM EDTA, 8.5 % Glycerol, 170 mM KCl, 1 mM ZnSO ₄ , 37.5 µg/ml Poly dIdC, 10 mM DTT, and 1 mg/ml BSA, analyzed by gel shift assay.
Formulation	Liquid. In 20mM TRIS-Cl, pH 7.9, containing 150mM KCl, 0.2mM EDTA and 20% glycerol.
Specificity	Binds specifically to an oligonucleotide with the sequence: GGG GCG GGG.
Storage	-80°C.

GENE INFORMATION

Gene Name	SP3 Sp3 transcription factor [Homo sapiens]
Synonyms	Sp3 transcription factor; SP3; SPR2; DKFZp686O1631; SPR-2; specificity protein 3; GC-binding transcription factor Sp3; DKFZp686O1631
Gene ID	6670
mRNA Refseq	NM_001017371
Protein Refseq	NP_001017371
MIM	601804
UniProt ID	Q02447
Chromosome Location	2q31

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Pathway	Huntington's disease; TGF-beta signaling pathway
Function	DNA binding; chromatin binding;double-stranded DNA binding; metal ion binding; protein binding; transcription activator activity; transcription activator activity; transcription repressor activity; zinc ion binding

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