

Recombinant Human SOX9, GST-tagged

Cat. No. SOX9-2415H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human folate hydrolase encoding 316-510 aa was expressed in <i>E. coli</i> . It was fused with a GST tag at the N-terminus.
Species	Human
Source	E.coli
Protein Length	316-510 a.a.
Description	SOX9 is a member of the family of SOX (Sry-type high mobility group box) gene that was first identified on the basis of region with high homology to that of Sry (Sex-determining region Y). It is a transcription factor with a high mobility group DNA-binding domain that is expressed in all prechondrocytic and chondrocytic cells during embryonic development in a pattern that close parallels that of the gene for type II collagen. Phosphorylation of SOX9 by PKA increases its DNA binding and transcriptional activity. SOX9 regulates expression of chondrocyte phenotype related genes. IL-1 and TNF- α can cause a marked and rapid decrease in the levels of SOX9 mRNA and/or protein in chondrocytes, thus strongly inhibit the expression of genes for cartilage extracellular matrix proteins. The down-regulation of Sox9 may have a crucial role in inhibiting expression of the cartilage phenotype in inflammatory joint diseases.
Presentation	100 μ l purified human Lyn protein at 100 μ g/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA, 20% Glycerol without BSA and Sodium Azide.

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Applications	ELISA•Inhibition Assays• Western Blotting.
Characterization	On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 48 kDa (including GST).
Storage & Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

GENE INFORMATION

Gene Name	SOX9 SRY (sex determining region Y)-box 9 [Homo sapiens]
Synonyms	SOX9; SRY (sex determining region Y)-box 9; CMD1; SRA1; CMPD1; transcription factor SOX-9; SRY-related HMG-box, gene 9; SRY (sex-determining region Y)-box 9 protein; Transcription factor SOX-9
Gene ID	6662
mRNA Refseq	NM_000346
Protein Refseq	NP_000337
UniProt ID	P48436
Chromosome Location	17q23
MIM	608160
Function	RNA polymerase II transcription factor activity; protein binding; sequence-specific DNA binding; specific RNA polymerase II transcription factor activity; transcription

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activator activity; transcription factor activity

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