

# Recombinant Human SRY (Sex Determining Region Y)-Box 2, His-tagged

**Cat. No.** SOX2-2049H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human SOX2 protein fused to His-tag was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 23.1kDa (208aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-200 a.a.
<b>Description</b>	SRY (sex determining region Y)-box 2, also known as SOX2, is a transcription factor that is essential to maintain self-renewal of undifferentiated embryonic stem cells. This Protein is a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 200mM NaCl, 2mM DTT, 40% glycerol.
<b>Purity</b>	> 90% by SDS - PAGE.
<b>Concentration</b>	0.25 mg/ml (determined by Bradford assay).
<b>Sequences Of Amino</b>	MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNPDR VKRPMNAFMV

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**Acids** WSRGQRRKMA QENPKMHNSE ISKRLGAEWK LLSETEKRPF IDEAKRLRAL  
 HMKEHPDYKY RPRRKTCTLM KKDKYTLPGG LLAPGGNSMA SGVGVGAGLG  
 AGVNQRMSY AHMNGWSNGS YSMMQDQLGY PQHPGLNAHG AAQMOPMHRV  
 LEHHHHHH.

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene Name** [SOX2 SRY \(sex determining region Y\)-box 2 \[ Homo sapiens \]](#)

**Synonyms** SOX2; SRY (sex determining region Y)-box 2; ANOP3; MCOPS3; MGC2413;  
 Transcription factor SOX-2; SRY-related HMG-box gene 2; transcription factor SOX2;  
 sex-determining region Y-box 2

**Gene ID** [6657](#)

**mRNA Refseq** [NM\\_003106](#)

**Protein Refseq** [NP\\_003097](#)

**MIM** [184429](#)

**UniProt ID** [P48431](#)

**Chromosome Location** 3q26.3-q27

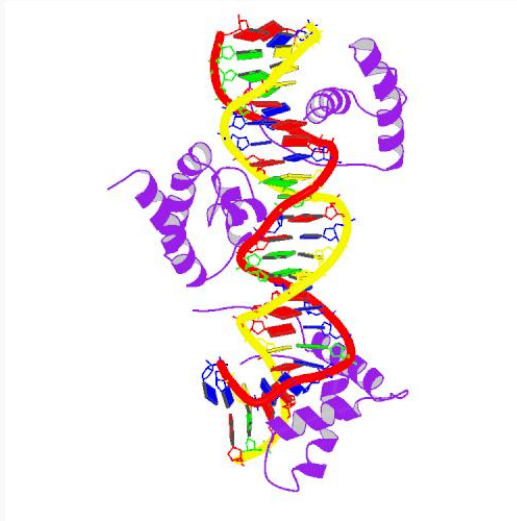
**Function** chromatin binding; protein binding; sequence-specific DNA binding; transcription factor activity

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