

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

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
Protein Length	1-200 a.a.
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 200mM NaCl, 2mM DTT, 40% glycerol.
Purity	> 90% by SDS - PAGE.
Concentration	0.25 mg/ml (determined by Bradford assay).
Sequences Of Amino	MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNSPDR VKRPMNAFMV

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Acids

WSRGQRRKMA QENPKMHNSE ISKRLGAEWK LLSETEKRPF IDEAKRLRAL
 HMKEHPDYKY RPRRKTKTLM KKDKYTLPGG LLAPGGNSMA SGVGVGAGLG
 AGVNQRMSY AHMNGWSNGS YSMMQDQLGY PQHPGLNAHG AAQMOPMHRY
 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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