

# Recombinant human SOX2 protein

Catalog Number: ATGP0514

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-200aa

### UniProt No.

P48431

### NCBI Accession No.

NP\_003097.1

### Alternative Names

SRY (sex determining region Y)-box 2, ANOP3, MCOPS3, MGC2413, SRY (sex determining region Y)-box 2 ANOP3, cb236, Delta EF2a, lcc, MGC148683, RGD1565646, Sex determining region Y box 2, SOX 2, SRY (sex determining region Y) box 2, SRY box containing gene 2, SRY related HMG box 2, SRY related HMG box gene 2, SRY-box 2, Transcription factor SOX 2, ysb.

## PRODUCT SPECIFICATION

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### Molecular Weight

23.1 kDa (208aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 200mM NaCl, 2mM DTT, 40% Glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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

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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. Recombinant human SOX2 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNSPDR VKRPMNAFMV WSRGQRRKMA QENPKMHNSE  
ISKRLGAEWK LLSETEKRPF IDEAKRLRAL HMKEHPDYKY RPRRKTTLK KDKYTLPGG LLAPGGNSMA SGVGVGAGLG  
AGVNQRMSY AHMNGWSNGS YSMMQDQLGY PQHPGLNAHG AAQMMPMHRY <LEHHHHHH>

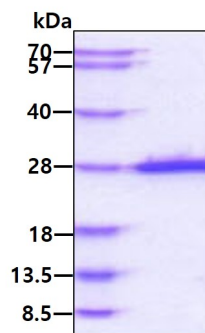
## General References

Wei Z., et al. (2009) *Stem Cells*. 27(12):2969-78.

Martinez-Fernandez A., et al. (2009) *Circ Res*. 25 105(7):648-56.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.