Recombinant human SOX2 protein

Catalog Number: ATGP0514

PRODUCT INFORMATION

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

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

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

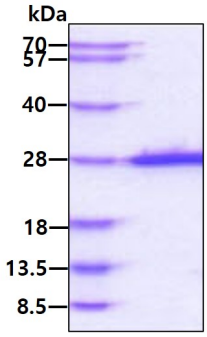
MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNSPDR VKRPMNAFMV WSRGQRRKMA QENPKMHNSE ISKRLGAEWK LLSETEKRPF IDEAKRLRAL HMKEHPDYKY RPRRKTKTLM KKDKYTLPGG LLAPGGNSMA SGVGVGAGLG AGVNQRMDSY AHMNGWSNGS YSMMQDQLGY PQHPGLNAHG AAQMQPMHRY <LEHHHHHH>

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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.