

Active Recombinant Human SOX2 protein

Cat. No. SOX2-67H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Sox2 cDNA (317 aa) was constructed with with flexible linker domain & eleven arginine (11R Tag) as membrane penetration domain at the C terminus was expressed in E. coli.
Species	Human
Source	E.coli
Form	0.50 mg/ml in sterile-filtered solution in 20 mM Tris, pH 7.5. Proprietary formulation of NaCl , KCl, EDTA, arginine, DTT, and glycerol.
Bio-activity	Cellular Toxicity: This recombinant protein was tested on mouse embryonic stem cells up to 50 g/ml in culture medium. Suggested reprogramming protein concentration is between 0.5 to 8 ug / ml for both human and mouse fibroblast cells applications.Biolog
AA Sequence	<p>MYNMMETELKPPGPQQTSGGGGGNSTAAAAGGNQKNSPDRVKRPMNAFMVWSR GQRRKMAQENPKMHNSEISKRL GAEWKLLSETEKRPFIDEAKRLRALHMKEHPDY KYRPRRKTKTLMKKDKYTLPGGLLAPGGNSMASGVGVGAGLG AGVNQRMDSYAH MNGWSNGSYSMMQDQLGYPQHPGLNAHGAAQMMPHRYDVSALQYNSMTSSQ TYMNGSPTYSM SYSQQGTPGMALGSMGSSVVKSEASSPPVVTSSSHSRAPCQAG DLRDMISMYLPGAEVPEPAAPSRLHMSQHYQS GPVPGTAINGTLPLSHMESGGGG SPGRRRRRRRRRRR</p>
Purity	>95% by SDS-PAGE

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Applications

1. May be used for in vitro human Sox2 mediated iPS generation mechanism, or its gene specific transcription regulation study with intracellular delivery of this protein.2. May be used as specific substrate protein for kinase and ubiquitin (Sumo pathway) related enzyme functional screening assays.3. May be used for Sox2 protein-protein interaction mapping.4. May be used for specific antibody production.

Storage

Recombinant Human Sox2-11R is stable for six months at -20centigrade to -80centigrade. Store thawed tube at 4centigrade for seven days. Multiple freeze/thaw cycles may result in significant loss of activity.

GENE INFORMATION

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

Official Symbol [SOX2](#)

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

Gene ID [6657](#)

mRNA Refseq [NM_003106](#)

Protein Refseq [NP_003097](#)

MIM [184429](#)

UniProt ID [P48431](#)

Chromosome 3q26.3-q27

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Location**Pathway**

Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;

Function

DNA binding; DNA binding; miRNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding;

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