

Recombinant Human Transcription factor SOX-2/SOX2 Protein

Catalog No.: RP03291LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	6657	P48431

Tags

N-His

Synonyms

Transcription factor SOX-2; SOX2;
ANOP3; MCOPS3

Product Information

Source	Purification
E.coli	> 80% by SDS-PAGE.

Calculated MW	Observed MW
35.27 kDa	35 kDa

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution of PBS, 1 mM EDTA, 1 M Urea, 1 mM TCEP, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Contact

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Background

The SOX (SRY homology box) family of proteins comprises 20 individual members in man and mouse, of which SOX2 is the most explored. SOX proteins are principally defined by a conserved DNA-binding element, the so-called high mobility group (HMG) that relates to a transcriptional master regulator of virility. The SOX family branches into eight sub-categories (SoxA-H), of which SoxB further divides into SoxB1 and SoxB2 groups reflecting more recent gene duplication events. While Sox proteins contribute to various cellular functionalities, reprogramming capacity is largely confined to members of the SoxB1 group (i.e., Sox1, Sox2, and Sox3). SOX2 imposes transcription modulatory significance often in conjunction with co-factors such as OCT3/4 in ES cells or PAX6 in the visual system primordia. And SOX2 enables the derivation of human or murine induced pluripotent stem cells (iPSCs) from terminally differentiated somatic cells.

Basic Information

Description

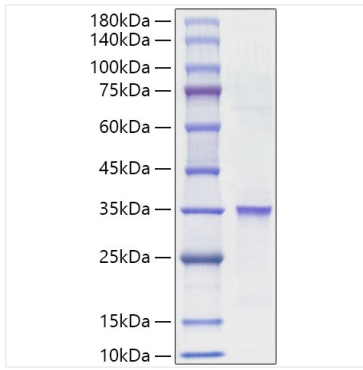
Recombinant Human Transcription factor SOX-2/SOX2 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Met317) of human SOX2 (Accession #P48431) fused with His tag at the N-terminus.

Bio-Activity

Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Transcription factor SOX-2/SOX2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35 kDa.