Data Sheet (Cat.No.TMPY-07226)

TargetMol

SOX-2 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	ysb;Sox-2;lcc
Protein Construction:	A DNA sequence encoding the Mouse SOX2 (P48432) (Met1-Met319) was expressed, with a polyhistidine tag at the N-terminus.
Species:	Mouse
Expression Host:	E. coli
Accession:	P48432
Molecular Weight:	35.42 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	≥ 75 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 20 mM Tris, 500 mM NaCl, 2M Urea, 1mM EDTA, 1mM TCEP, pH 7.4. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

SOX2 is a member of the SOXB1 subfamily of transcription factors most notably involved in the reprogramming of somatic cells into induced pluripotent stem cells. Housed on chromosome 3, the SOX2 gene encodes for a protein with a C-terminal transcriptional activation domain and a DNA-binding HMG domain that contains a nuclear localization/export signal. SOX2 forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development and pluripotency such as YES1, FGF4, UTF1 and ZFP206. Mutations in this gene have been associated with bilateral eye disease. SOX2 antigen and antibody were found in small-cell lung cancer cell lines and sera. However, neither exists in normal sera, suggesting that SOX2 might be a potential tumor target or marker.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481