

SOX-2 Protein, Human, Recombinant (His)

General Information

Synonyms: Transcription factor SOX-2;SOX2

Protein Construction: 1-317 aa

Species: Human

Expression Host: E. coli

Accession: P48431

Molecular Weight: 38.4 kDa (predicted)

AA Sequence: MYNMMETELKPPGPQQTSGGGGGNSTAAAAGGNQKNPDRVKRPMNAFMVWSRGQRKMAQENPKM
HNSEISKRLGAEWKLLSETEKRPFIDEAKRLRALHMKEHPDYKYRPRRKTCTLMKKDKYTLPGLLAPGGNSM
ASGVGVGAGLGAGVNRMDSYAHMNGWSNGSYSMMQDQLGYPQHPGLNAHGAAQMMPMHRYDVSAL
QYNSMTSSQTYMNGSPTYSMSYSQQGTPGMALGSMGSVVKSEASSPPVVTSSSHSRAPCQAGDLRDMIS
MYLPGAEVPEPAAPSRLHMSQHYQSGPVPGTAINGTLPLSHM

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Binds to the proximal enhancer region of NANOG. Critical for early embryogenesis and for embryonic stem cell pluripotency. Downstream SRRT target that mediates the promotion of neural stem cell self-renewal. Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation. May function as a switch in neuronal development.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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