

Sox2 Protein, Human

Cat. No.:	HY-P701993
Synonyms:	SOX2; Transcription factor SOX-2
Species:	Human
Source:	E. coli
Accession:	P48431 (R40-D123)
Gene ID:	6657
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris, pH7.5, 150 mM NaCl, 5% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>Sox2, a pivotal transcription factor, forms a trimeric complex with OCT4 on DNA, exerting control over the expression of genes crucial in embryonic development, such as YES1, FGF4, UTF1, and ZFP206. It binds to the proximal enhancer region of NANOG, playing a critical role in early embryogenesis and maintaining embryonic stem cell pluripotency. Functioning as a downstream target of SRRT, Sox2 contributes to the promotion of neural stem cell self-renewal while preventing neural cell differentiation through counteraction against proneural proteins. Additionally, it may serve as a switch in neuronal development. Sox2 engages in various interactions, including those with ZSCAN10, SOX3, FGFR1, GLIS1, POU5F1, DDX56, L3MBTL3, DCAF5, RCOR1/CoREST, PHF20L1, and TRIM26, underscoring its dynamic regulatory network. These interactions highlight its involvement in critical cellular processes, including ubiquitination, degradation protection, and prevention of ubiquitination by specific ligases.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA