

Recombinant Human SOX2 Protein (R40-D123), Tag Free

Cat. No. SOX2-1274H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GG-Sox2(R40-D123) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	R40-D123
Description	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.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.

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Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile. 50 mM Tris (pH 7.5), 150 mM NaCl, 5% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

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

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