

Active Recombinant Full Length Human SOX4 Protein, C-Flag-tagged

Cat. No. SOX4-493HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SOX4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This intronless gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin). The protein may function in the apoptosis pathway leading to cell death as well as to tumorigenesis and may mediate downstream effects of parathyroid hormone (PTH) and PTH-related protein (PTHrP) in bone development. The solution structure has been resolved for the HMG-box of a similar mouse protein.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	EMSA assay
Molecular Mass	47.1 kDa
AA Sequence	MVQQTNNAENTEALLAGESSDSGAGLELGIASSPTPGSTASTGGKADDP SWCKTPS GHIKRP MN AFMVWS QIERRKIMEQSPDMHNAEISKRLGKRWKLKDS DKIPFIREAE

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RLRLKHMADYPDYKYRPRKKVKSGNAN SSSSAAASSKPGEKGDKVGGSGGGGHG
 GGGGGGSSNAGGGGGGASGGGANSKPAQKKSCGSKVAGGAGGG VSKPHAKLIL
 AGGGGGGKAAAAAASFAAEQAGAAALLPLGAAADHHSLYKARTPSASASASSAA
 SASAA LAAPGKHLAEKKVKRVYLFGGGLGTSSSPVGGVGAGADPSDPLGLYEEEGA
 GCSPDAPSLSGRSSAASSPA AGRSPADHRGYASLRAASPAPSSAPSHASSSASSH
 SSSSSSGSSSSDDEFEDDLLDLNPSSNFESMSLG
 SFSSSSALDRDLDFNFEPGSGSHFEFPDYCTPEVSEMISGDWLESSISNLVFTYSGP
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors
Full Length	Full L.

GENE INFORMATION

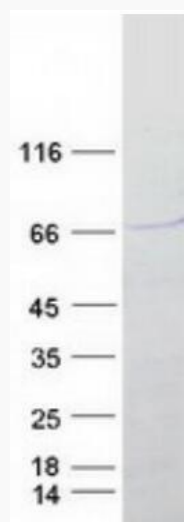
Gene Name	SOX4 SRY-box transcription factor 4 [Homo sapiens (human)]
Official Symbol	SOX4

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Synonyms	CSS10; EVI16
Gene ID	6659
mRNA Refseq	NM_003107.3
Protein Refseq	NP_003098.1
MIM	184430
UniProt ID	Q06945



Coomassie blue staining of purified SOX4 protein.