

Recombinant Full Length Human SOX2 Protein, C-Flag-tagged

Cat. No. SOX2-1613HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SOX2 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 SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	34.1 kDa
AA Sequence	MYNMMETELKPPGPQQTSGGGGGNSTAAAAGGNQKNSPDRVKRPMNAFMVWSR GQRRKMAQENPKMHNSE ISKRLGAEWKLLSETEKRPFIDEAKRLRALHMKEHPDY KYRPRRKTKTLMKKDKYTLPGGLLAPGGNSMA SGVGVGAGLGAGVNRMDSYAH MNGWSNGSYSMMQDQLGYPQHPGLNAHGAAQMMPMHRYDVSALQYNM TSSQ TYMNGSPTYSMSYSQQGTPGMALGSMGSVVKSEASSSPVVTSSSHSRAPCQAG

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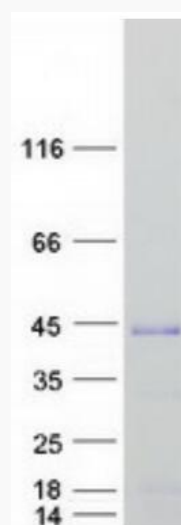
	DLRDMISMYLPG AEVPEPAAPSR LHMSQHYQSGPVPGTAINGTLP LSHMTRTRPLEQKLISEEDLAAND ILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
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	Adult stem cells, Cancer stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Full Length	Full L.
GENE INFORMATION	
Gene Name	SOX2 SRY-box transcription factor 2 [Homo sapiens (human)]
Official Symbol	SOX2
Synonyms	ANOP3; MCOPS3
Gene ID	6657

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mRNA Refseq	NM_003106.4
Protein Refseq	NP_003097.1
MIM	184429
UniProt ID	P48431



Coomassie blue staining of purified SOX2 protein.