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## Product Data Sheet

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Product Name: SOX2 Human, TAT

Cat. No.: GP24667

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	MCOPS3; ANOP3; MGC2413; SOX2; SRY (sex determining region Y)-box 2.		
Amino Acid Sequence	<p>MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNSPDR VKRPMNAFMV          WSRGQRRKMA QENPKMHNSE ISKRLGAEWK LLSETEKRPF IDEAKRLRAL          HMKEHPDYKY RPRRKTTLML KKDKYTLPGG LLAPGGNSMA SGVGVGAGLG          AGVNQRMDSY AHMNGWSNGS YSMMQDQLGY PQHPGLNAHG          AAQMOPMHRV DVSALQYNSM TSSQTYMNGS PTYSMSYSQQ GTPGMALGSM          GSVVKSEASS SPPVVTSSSH SRAPCQAGDL RDMISMYLPG AEVPEPAAPS          RLHMSQHYQS GPVPGTAING TLPLSHMGGY GRKKRRQRRR.</p>		
Solubility	It is recommended to reconstitute the lyophilized Sox2 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in 26 <sup>L</sup> PBS, pH 7.4 and 5% trehalose.		

**Introduction**

SOX2 is a 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. SOX4 is important for early embryogenesis and for embryonic stem cell pluripotency.

**Stability**

Lyophilized Sox2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Sox2 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a

**Caution: Product has not been fully validated for medical applications. For research use only.**

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carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Sox2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 330 amino acids (317 aa residues of the full length Sox2) and having a molecular mass of 36kDa. Sox2 is fused to a 13 amino acid TAT peptide at C-terminus (GGYGRKKRRQRRR) & purified by proprietary chromatographic techniques.

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