

Overview

Synonyms	MCOPS3; ANOP3; MGC2413; SOX2; SRY (sex determining region Y)-box 2; (SRY)-box 2
Description	<p>Sox2 is a member of the Sox family of transcription factors involved in mammalian development containing a highly conserved 79-residue DNA-binding domain, known as the high mobility group (HMG) box. Sox2 is a transcription factor that forms a trimeric complex with Oct4 and binds to DNA to promote the expression of pluripotent genes involved in self-renewal, while repressing genes involved in cell differentiation (ED). Due to its high pluripotency, Sox2 is a commonly used transcription factor for generating induced-pluripotent stem cells (iPSCs).</p> <p>Recombinant Human Sox2-TAT produced in HEK293 cells is a polypeptide chain containing 330 amino acids. The rhSox2-TAT has a molecular mass of 50-55 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P02775
Source	HEK 293
Biological Activity	Not Available
Sequence	<p>MYNMMETELK PPGPQQTSGG GGNSTAAAA GGNQKNSPDR VKRPMNAFMV WSRGQRRKMA QENPKMHNSE ISKRLGAEWK LLSETEKRPF IDEAKRLRAL HMKEHPDYKY RPRRKTKTLM KKDKYTLPGG LLAPGGNSMA SGVGVGAGLG AGVNQRMSY AHMNGWSNGS YSMMQDQLGY PQHPGLNAHG AAQMOPMHRV DVSALQYNSM TSSQTYMNGS PTYSMSYSQQ GTPGMALGSM GSVVKSEASS SPPVVTSSSH SRAPCQAGDL RDMISMYLPG AEVPEPAAPS RLHMSQHYQS GPVPGTAING TLPLSHMGY GRKKRRQRRR</p>

Properties

Measured Molecular Weight	50-55 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Human Sox2-TAT remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Sox2-TAT should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
Note	For research use only

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