

SRY (sex determining region Y)-box 2 Human Recombinant, TAT

Item Number	rAP-4844
Synonyms	MCOPS3, ANOP3, MGC2413, SOX2, SRY (sex determining region Y)-box 2.
Description	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
Uniprot Accession Number	P48431
Amino Acid Sequence	MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNSPDR VKRPMNAFMV WSRGQRRKMA QENPKMHNSE ISKRLGAEWK LLSETEKRPF IDEAKRLRAL HMKEHPDYKY RPRRKTTLTLM KKDKYTLPGG LLAPGGNSMA SGVGVGAGLG AGVNQRMSY AHMNGWSNGS YSMMQDQLGY PQHPGLNAHG AAQMOPMHRY DVSALQYNM TSSQTYMNGS PTYSMSYSQQ GTPGMALGSM GSVVKSEASS SPPVVTSSSH SRAPCQAGDL RDMISMYLPG AEVPEPAAPS RLHMSQHYQS GPVPG- TAING TLPLSHMGY GRKKRRQRRR.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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 carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a 0.2µm filtered concentrated solution in 2×PBS, pH 7.4 and 5% trehalose. Greater than 95.0% as determined by RP-HPLC and SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Sox2 in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**