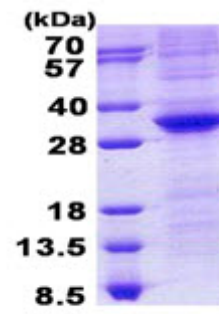


**AR50772PU-S****Human OCT4 (1-265, His-tag) - Purified**

<b>Alternate names:</b>	MGC22487, OCT3, OCT4, OTF3, OTF4, POU domain, POU5F1, class 5, transcription factor 1 isoform 2
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml (determined by Bradford assay)
<b>Background:</b>	POU domain, class 5, transcription factor 1, also known as OCT4, binds to the octamer motif (5'-ATTTGCAT-3'). This protein forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. It is critical for early embryogenesis and for embryonic stem cell pluripotency.
<b>Uniprot ID:</b>	<a href="#">M1S623</a>
<b>NCBI:</b>	<a href="#">NP_976034</a>
<b>GeneID:</b>	<a href="#">5460</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >85% by SDS - PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
<b>Description:</b>	Recombinant human OCT4 protein, fused to His-tag at N-terminus, was expressed in E.coli. <b>AA Sequence:</b> MGSSHHHHHH SSGLVPRGSH MHFYRLFLGA TRRFLNPEWK GEIDNWCYVY LTSLLPFKIQ SQDIKALQKE LEQFAKLLKQ KRITLGYTQA DVGLTLGVLF GKVFSQTTIC RFEALQLSFK NMCKLRPLLQ KWVEEADNNE NLQEICKAET LVQARKRKRT SIENRVRGNL ENLFLQCPKP TLQQISHIAQ QLGLEKDVVR VWFCNRRQKG KRSSSDYAQR EDFEAAGSPF SGGPVSFPLA PGPHFGTPGY GSPHFTALYS SVPFPEGEAF PPVSVTTLGS PMHSN <b>Molecular weight:</b> 32.2 kDa (285aa)
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Takahashi K., et al. (2007) Cell. 131:861-872 Lee J., et al. (2008) Int. J. Biochem. Cell Biol. 40:1043-1054

Pictures:



15% SDS-PAGE (3ug)