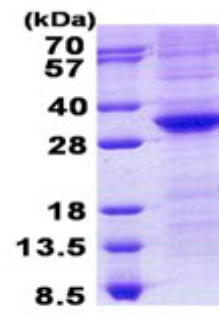


AR50772PU-N**Human OCT4 (1-265, His-tag) - Purified**

Alternate names:	MGC22487, OCT3, OCT4, OTF3, OTF4, POU domain, POU5F1, class 5, transcription factor 1 isoform 2
Quantity:	0.5 mg
Concentration:	0.5 mg/ml (determined by Bradford assay)
Background:	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.
Uniprot ID:	M1S623
NCBI:	NP_976034
GeneID:	5460
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >85% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Description:	Recombinant human OCT4 protein, fused to His-tag at N-terminus, was expressed in E.coli. AA Sequence: MGSSHHHHHH SGLVPRGSH MHFYRLFLGA TRRFLNPEWK GEIDNWCYVY LTSLLPFKIQ SQDIKALQKE LEQFAKLLKQ KRITLGYTQA DVGLTLGVLF GKVFSQTTIC RFEALQLSFK NMCKLRPLLQ KWVEEADNNE NLQEICKAET LVQARKRKRT SIENRVRGNL ENLFLQCPKP TLQQISHIAQ QLGLEKDVVR VWFCNRRQKG KRSSSDYAQR EDFEAAGSPF SGGPVSFPLA PGPHFGTPGY GSPHFTALYS SVPFPEGAEF PPVSVTTLGS PMHSN Molecular weight: 32.2 kDa (285aa)
Storage:	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.
General Readings:	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)