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Recombinant human Oct-3/4 protein

Catalog Number: ATGP1948

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-265aa

UniProt No.

001860

NCBI Accession No.

NP 001272916

Alternative Names

POU domain, class 5, transcription factor 1 isoform 3, Oct-3, Oct-4, OCT3, OCT4, OTF-3, OTF4, OTF-3, OTF-4, OTF-3, OTF-3, OTF-4, OTF-3, OTF-3,

PRODUCT SPECIFICATION

Molecular Weight

32.2 kDa (285aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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. Recombinant human OCT4 protein, fused to His-tag at N-terminus, was expressed in E. coli.



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Amino acid Sequence

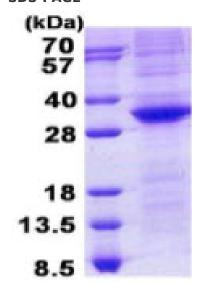
MGSSHHHHHH SSGLVPRGSH MHFYRLFLGA TRRFLNPEWK GEIDNWCVYV LTSLLPFKIQ SQDIKALQKE LEQFAKLLKQ KRITLGYTQA DVGLTLGVLF GKVFSQTTIC RFEALQLSFK NMCKLRPLLQ KWVEEADNNE NLQEICKAET LVQARKRKRT SIENRVRGNL ENLFLQCPKP TLQQISHIAQ QLGLEKDVVR VWFCNRRQKG KRSSSDYAQR EDFEAAGSPF SGGPVSFPLA PGPHFGTPGY GSPHFTALYS SVPFPEGEAF PPVSVTTLGS PMHSN

General References

Takahashi K., et al. (2007) Cell. 131:861-872 Lee J., et al. (2008) Int. J. Biochem. Cell Biol. 40:1043-1054

DATA





3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)