

Recombinant human Oct-3/4 protein

Catalog Number: ATGP1948

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-265aa

UniProt No.

Q01860

NCBI Accession No.

NP_001272916

Alternative Names

POU domain, class 5, transcription factor 1 isoform 3, Oct-3, Oct-4, OCT3, OCT4, OTF-3, OTF3, OTF4

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 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

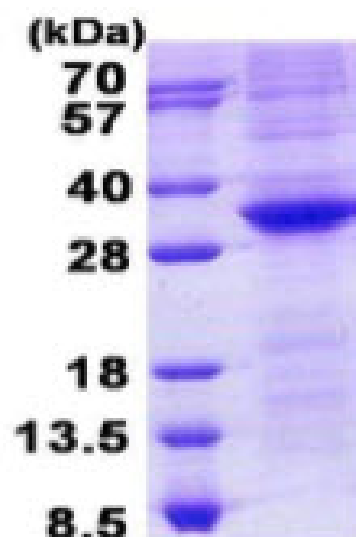
General References

Takahashi K., et al. (2007) Cell. 131:861-872

Lee J., et al. (2008) Int. J. Biochem. Cell Biol. 40:1043-1054

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)