

OCT4 recombinant protein

OCT4, 1-265aa, Human, His tag, E Coli (Denatured)

CATALOG # AAA48802	HOST E Coli	APPLICATIONS SDS-Page
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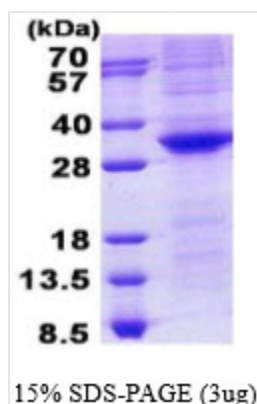
PRODUCT SYNONYMS

OCT4; 1-265aa; Human; His tag; E Coli (Denatured); POU domain; class 5; transcription factor 1 isoform 3; Oct-3; Oct-4; OCT3; OTF-3; OTF3; OTF4; OCT4 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 85% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MHFYRLFLGA TRRFLNPEWK GEIDNWCYVY LTSLLPFKIQ SQDIKALQKE LEQFAKLLKQ KRITLGYTQA DVGLTLGVLF GKVSQTTIC RFEALQLSFK NMCKLRPLLQ KWVEEADNNE NLQEICKAET LVQARKRKRT SIENRVRGNL ENLFLQCPKP TLQQISHIAQ QLGLEKDVVR VWFCNRRQKG KRSSSDYAQR EDFEAAGSPF SGGPVSFPLA PGPHFGTPGY GSPHFTALYS SVPFPEGEAF PPVSVTTLGS PMHSN
Sequence Length	265
Applicable Applications for OCT4 recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Domain	1-265aa
Preparation and Storage	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for OCT4 recombinant protein	POU domain, class 5, transcription factor 1, also known as OCT4, binds to the octamer motif (5'-ATTGTCAT-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.
Product Categories/Family for OCT4 recombinant protein	Development
References	Takahashi K., et al. (2007) Cell. 131:861-872; Lee J., et al. (2008) Int. J. Biochem. Cell Biol. 40:1043-1054

NCBI AND UNIPROT INFORMATION

NCBI GI #	553727233
NCBI GeneID	5460
NCBI Accession #	NP_001272916
NCBI GenBank Nucleotide #	NM_001285987.1
UniProt Accession #	Q01860; P31359; Q15167; Q15168; Q16422; Q5STF3; Q5STF4; A6NCS1; A6NLL8; D2IYK4
Molecular Weight	32.2 kDa (285aa)
NCBI Official Full Name	POU domain, class 5, transcription factor 1 isoform 3
NCBI Official Synonym Full Names	POU class 5 homeobox 1
NCBI Official Symbol	POU5F1
NCBI Official Synonym Symbols	OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4
NCBI Protein Information	POU domain, class 5, transcription factor 1
UniProt Protein Name	POU domain, class 5, transcription factor 1
UniProt Gene Name	POU5F1
UniProt Synonym Gene Names	OCT3; OCT4; OTF3; Oct-3; Oct-4; OTF-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pou5f1-recombinant-protein-e-coli-sds-page/48802>