

Recombinant Human POU5F1 protein, His-tagged

Cat. No. POU5F1-321H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant Human POU5F1(1-265aa) fused with His tag at N-terminal was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 1-265 a.a. |
| 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. |
| Form | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol |
| Molecular Mass | 32.2 kDa (285aa) |
| AA Sequence | <p>MGSSHHHHHH SGLVPRGSH MHFYRLFLGA TRRFLNPEWK GEIDNWCVYV LTSLLPFKIQ SQDIKALQKE LEQFAKLLKQ KRITLGYTQADVGLTLGVLF GKVFSQTTIC RFEALQLSFK NMCKLRPLLQ KWVEEADNNE NLQEICKAET LVQARKRKRT SIENRVRGNL ENLFLQCPKPTLQQISHIAQ QLGLEKDVVR VWFCNRRQKG KRSSSDYAQR EDFAAAGSPF SGGPVSFPLA PGPHTGTPGY GSPHFTALYS SVPFPEGEAFPPVSVTTLGS PMHSN</p> |

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| Purity | > 85% by SDS - PAGE |
| Storage | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles. |
| Concentration | 0.5 mg/ml (determined by Bradford assay) |

GENE INFORMATION

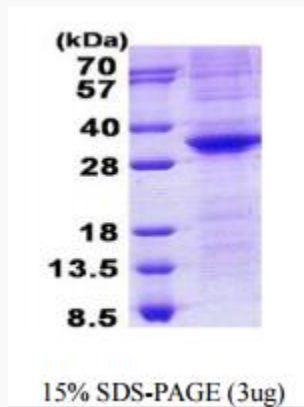
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|------------------------|--|
| Gene Name | POU5F1 POU class 5 homeobox 1 [Homo sapiens] |
| Official Symbol | POU5F1 |
| Synonyms | POU5F1; POU class 5 homeobox 1; OTF3, POU domain class 5, transcription factor 1; POU domain, class 5, transcription factor 1; MGC22487; OCT3; Oct4; octamer-binding protein 3; octamer-binding protein 4; POU domain transcription factor OCT4; octamer-binding transcription factor 3; octamer-binding transcription factor-3; POU-type homeodomain-containing DNA-binding protein; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4; |
| Gene ID | 5460 |
| mRNA Refseq | NM_203289 |
| Protein Refseq | NP_976034 |
| MIM | 164177 |
| UniProt ID | Q01860 |

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| Chromosome Location | 6p21.33 |
| Pathway | HIF-2-alpha transcription factor network, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem; |
| Function | DNA binding; miRNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; ubiquitin protein ligase binding; |



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