

Recombinant Human POU5F1 protein, His-tagged

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

SPECIFICATION

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	MGSSHHHHH SGLVPRGSH MHFYRLFLGA TRRFLNPEWK GEIDNWCYVY LTSLLPFKIQ SQDIKALQKE LEQFAKLLKQ KRITLGYTQADVGLTLGVLF GKVFSQTTIC RFEALQLSFK NMCKLRPLLQ KWVEEADNNE NLQEICKAET LVQARKRKRT SIENRVRGNL ENLFLQCPKPTLQQISHIAQ QLGLEKDVVR VWFCNRRQKG KRSSSDYAQR EDFEAAGSPF SGGPVSFPLA PGPHEGTPGY GSPHFTALYS SVPFPEGEAFPPVSVTTLGS PMHSN

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

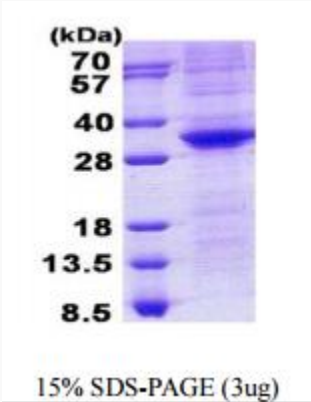
 45-1 Ramsey Road, Shirley, NY 11967, USA

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	
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;
 15% SDS-PAGE (3ug)	