

Recombinant Human POU5F1 protein, His-tagged

Cat. No. POU5F1-116H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human POU5F1, transcript variant 2, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of this gene in adult tissues is associated with tumorigenesis. This gene can participate in a translocation with the Ewing's sarcoma gene on chromosome 21, which also leads to tumor formation. Alternative splicing, as well as usage of alternative AUG and non-AUG translation initiation codons, results in multiple isoforms. One of the AUG start codons is polymorphic in human populations. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	21.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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
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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