

Product datasheet for **AR50772PU-S**

OCT4 (1-265, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	OCT4 (1-265, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MHFYRLFLGA TRRFLNPEWK GEIDNWCYVY LTSLLPFKIQ SQDIKALQKE LEQFAKLLKQ KRITLGYTQA DVGLTLGVLF GKVFSQTTIC RFEALQLSFK NMCKLRPLLQ KWVEEADNNE NLQEICKAET LVQARKRKRT SIENRVRGNL ENFLQCPKP TLQQISHIAQ QLGLEKDVR VWFCNRRQKG KRSSDYAQR EDFEAAGSPF SGGPVSFPLA PGPHFGTGPGY GSPHFTALYS SVPFPEGEAF PPVSVTTLGS PMHSN
Tag:	His-tag
Predicted MW:	32.2 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human OCT4 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001167002
Locus ID:	5460
UniProt ID:	M1S623
Cytogenetics:	6p21.33
Synonyms:	Oct-3; Oct-4; OCT3; OCT4; OTF-3; OTF3; OTF4



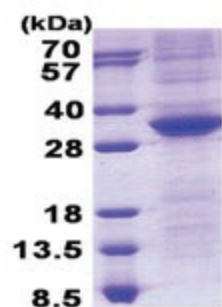
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Summary:

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. [provided by RefSeq, Oct 2013]

Protein Families:

Adult stem cells, Cancer stem cells, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Transcription Factors

Product images:

15% SDS-PAGE (3ug)