

PRODUCT DATA SHEET



Bioworld Technology, Inc.

OCT4 Recombinant Protein

Catalog: NCP0456

Host: E.coli

Tag: His-tag;Sumo-Tag

BackGround:

Oct-4 (POU5F1) is a transcription factor highly expressed in undifferentiated embryonic stem cells and embryonic germ cells. A network of key factors that includes Oct-4, Nanog, and Sox2 is necessary for the maintenance of pluripotent potential, and downregulation of Oct-4 has been shown to trigger cell differentiation. Research studies have demonstrated that Oct-4 is a useful germ cell tumor marker. Oct-4 exists as two splice variants, Oct-4A and Oct-4B. Recent studies have suggested that the Oct-4A isoform has the ability to confer and sustain pluripotency, while Oct-4B may exist in some somatic, non-pluripotent cells.

Product:

0.5M Urea, PH7.4

Molecular Weight:

~36kDa

Swiss-Prot:

Q01860

Purification&Purity:

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the

purity is > 85% (by SDS-PAGE).

Restriction Sites:

BamHI-XhoI

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Expression Vector:

pSmart-I

DATA:



Note:

For research use only, not for use in diagnostic procedure.

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