

Datasheet for ABIN7562946
OCT4 Protein (AA 1-352) (His tag)



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Overview

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|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | OCT4 (POU5F1) |
| Protein Characteristics: | AA 1-352 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This OCT4 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Purpose: | Custom-made recombinat Pou5f1 Protein expressed in mammalian cells. |
| Sequence: | <p>MAGHLASDFA FSPPPGGGDG SAGLEPGWVD PRTWLSFQGP PGGPGIGPGS EVLGISPCPP AYEFCGGMAY CGPQVGLGLV PQVGVETLQP EGQAGARVES NSEGTSSSEPC ADRPNAVKLE KVEPTPEESQ DMKALQKELE QFAKLLKQKR ITLGYTQADV GLTLGVLF GK VFSQTTICRF EALQLSLKNM CKLRPLLEKW VEEADNNENL QEICKSETLV QARKRKRTSI ENRVRW SLET MFLKCPKPSL QQITHIANQL GLEKDVRVW FCNRRQKGKR SSIEYSQREE YEATGTPFPFG GAVSFPLPPG PHFGTPGYGS PHFTTLYSVP FPEGEAFPSV PVTALGSPMH SN</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |
| Characteristics: | Key Benefits: |

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: OCT4 (POU5F1)

Alternative Name: Pou5f1 ([POU5F1 Products](#))

Background: POU domain, class 5, transcription factor 1 (NF-A3) (Octamer-binding protein 3) (Oct-3) (Octamer-binding protein 4) (Oct-4) (Octamer-binding transcription factor 3) (OTF-3), FUNCTION: Transcription factor that binds to the octamer motif (5'-ATTTGCAT-3') (PubMed:1972777, PubMed:1690859, PubMed:1967980, PubMed:17525163, PubMed:23376973). Forms a trimeric complex with SOX2 or SOX15 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (PubMed:15863505, PubMed:17097055, PubMed:17496161, PubMed:19740739). Critical for early embryogenesis and for embryonic stem cell pluripotency (PubMed:1972777, PubMed:1690859, PubMed:17496161, PubMed:18662995, PubMed:19740739, PubMed:29153991, PubMed:23376973, PubMed:32703285). {ECO:0000269|PubMed:15863505, ECO:0000269|PubMed:1690859, ECO:0000269|PubMed:17097055, ECO:0000269|PubMed:17496161, ECO:0000269|PubMed:17525163, ECO:0000269|PubMed:18662995, ECO:0000269|PubMed:1967980, ECO:0000269|PubMed:1972777,

Target Details

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| | ECO:0000269 PubMed:19740739, ECO:0000269 PubMed:23376973, ECO:0000269 PubMed:29153991, ECO:0000269 PubMed:32703285}. |
| Molecular Weight: | 38.2 kDa |
| UniProt: | P20263 |
| Pathways: | Stem Cell Maintenance |

Application Details

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| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

Handling

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|------------------|--|
| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |