

Datasheet for ABIN7550906
OCT4 Protein (AA 1-360) (His tag)



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Overview

Quantity:	1 mg
Target:	OCT4 (POU5F1)
Protein Characteristics:	AA 1-360
Origin:	Human
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

Purpose:	Custom-made recombinat POU5F1 Protein expressed in mammalian cells.
Sequence:	<p>MAGHLASDFA FSPPPGGGGD GPGGPEPGWV DPRTWLSFQG PPGGPGIGPG VGPGSEVWGI PPCPPPYEFC GGMAYCGPQV GVGLVPQGGI ETSQPEGEAG VGVESNSDGA SPEPCTVTPG AVKLEKEKLE QNPESQDIK ALQKELEQFA KLLKQKRITL GYTQADVGLT LGVLFGKVFS QTTICRFEAL QLSFKNMCKL RPLLQKWVEE ADNENLQEI CKAETLVQAR KRKRTSIENR VRGNLENLFL QCPKPTLQI SHIAQLGLE KDVRVWFCN RRQKGKRSSS DYAQREDFEA AGSPFSGGPV SFPLAPGPHF GTPGYGSPHF TALYSSVPFP EGEAFPPVSV TTLGSPMHSN</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 (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'). 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. Critical for early embryogenesis and for embryonic stem cell pluripotency. {ECO:0000269|PubMed:18035408}.

Molecular Weight: 38.6 kDa

UniProt: [Q01860](#)

Pathways: [Stem Cell Maintenance](#)

Application Details

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

Application Details

	guarantee though.
Restrictions:	For Research Use only

Handling

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