

Datasheet for ABIN7563316
PROX1 Protein (AA 1-737) (His tag)



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Overview

| | |
|-------------------------------|----------------------------------------------|
| Quantity: | 1 mg |
| Target: | PROX1 |
| Protein Characteristics: | AA 1-737 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PROX1 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant Prox1 Protein expressed in mammalian cells. |
| Sequence: | MPDHDSTALL SRQTKRRRVD IGVKRTVGTA SAFFAKARAT FFSAMNPQGS EQDVEYSVVQ HADGEKSNVL RKLLKRANSY EDAMMPFPGA TIISQLLKNM MNKNGGTEPS FQASGLSSTG SEVHQEDICS NSSRDSPEEC LSPFGRPTMS QFDVDRLCDE HLRAKRARVE NIIRGMSHSP SVALRGNENE REMAPQSVSP RESYRENKRK QKLPQQQQQS FQQLVSARKE QKREERRQLK QQLEDMQKQL RQLQEKFYQV YDSTDSENE DGDLSSEDSMR SEILDARAQD SVGRSDNEMC ELDPGQFIDR ARALIREQEM AENKPKREGS NKERDHGPNS LQPEGKHLAE TLKQELNTAM SQVVDTVVKV FSAKPSRQVP QVFPPLQIPQ ARFAVNGENH NFHTANQRLQ CFGDVIIPNP LDTFGSVQMP SSTDQTEALP LVVRKNSSEQ SASGPATGGH HQPLHQSPLS ATAGFTTPSF RHPFPLPLMA YPFQSPGAP SGSFSGKDRA SPESLDLTRD TTSLRTKMSS HHLSHHPCSP AHPSTA EGL SLSLIKSECG DLQDMSDISP YGSAMQEGL SPNHLKKAKL MFFYTRYPSS NMLKTYFSDV KFNRCITSQL IKWFSNFREF YYIQMEKYAR QAINDGVTST EELSITRDCE LYRALNMHYN KANDFEVPER FLEVAQITLR EFFNAIAGK DVDPSWKKAI YKVICLDSE |

Product Details

VPEIFKSPNC LQELLHE **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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: PROX1

Alternative Name: Prox1 ([PROX1 Products](#))

Background: Prospero homeobox protein 1 (Homeobox prospero-like protein PROX1) (PROX-1),FUNCTION: Transcription factor involved in developmental processes such as cell fate determination, gene transcriptional regulation and progenitor cell regulation in a number of organs. Plays a critical role in embryonic development and functions as a key regulatory protein in neurogenesis and the development of the heart, eye lens, liver, pancreas and the lymphatic system. Involved in the regulation of the circadian rhythm. Represses: transcription of the retinoid-related orphan receptor RORG, transcriptional activator activity of RORA and RORG and the expression of RORA/G-target genes including core clock components: BMAL1, NPAS2 and CRY1 and

Target Details

metabolic genes: AVPR1A and ELOVL3. {ECO:0000269|PubMed:23723244, ECO:0000303|PubMed:22733308}.

Molecular Weight: 83.1 kDa

UniProt: [P48437](#)

Pathways: [Stem Cell Maintenance, Regulation of Muscle Cell Differentiation](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a 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