Datasheet for ABIN7565165

NR4A3 Protein (AA 1-627) (His tag)

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Overview

Quantity:	1 mg
Target:	NR4A3
Protein Characteristics:	AA 1-627
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NR4A3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Nr4a3 Protein expressed in mammalian cells.
Sequence:	MPCVQAQYSP SPPGSTYATQ TYGSEYTTEI MNPDYTKLTM DLGSTGIMAT ATTSLPSFST FMEGYPSSCE LKPSCLYQMP PSGPRPLIKM EEGREHGYHH HHHHHHHHHH HQQQQPSIPP PSGPEDEVLP STSMYFKQSP PSTPTTPGFP PQAGALWDDE LPSAPGCIAP GPLLDPQMKA VPPMAAAARF PIFFKPSPPH PPAPSPAGGH HLGYDPTAAA ALSLPLGAAA AAGSQAAALE GHPYGLPLAK RTATLTFPPL GLTASPTASS LLGESPSLPS PPNRSSSSGE GTCAVCGDNA ACQHYGVRTC EGCKGFFKRT VQKNAKYVCL ANKNCPVDKR RRNRCQYCRF QKCLSVGMVK EVVRTDSLKG RRGRLPSKPK SPLQQEPSQP SPPSPPICMM NALVRALTDA TPRDLDYSRY CPTDQATAGT DAEHVQQFYN LLTASIDVSR SWAEKIPGFT DLPKEDQTLL IESAFLELFV LRLSIRSNTA EDKFVFCNGL VLHRLQCLRG FGEWLDSIKD FSLNLQSLNL DIQALACLSA LSMITERHGL KEPKRVEELC TKITSSLKDH QRKGQALEPS EPKVLRALVE LRKICTQGLQ RIFYLKLEDL VPPPSVIDKL FLDTLPF **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein**

Product Details

	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:	NR4A3
Alternative Name:	Nr4a3 (NR4A3 Products)
Background:	Nuclear receptor subfamily 4 group A member 3 (Orphan nuclear receptor TEC) (Translocated in extraskeletal chondrosarcoma),FUNCTION: Transcriptional activator that binds to regulatory elements in promoter regions in a cell- and response element (target)-specific manner (PubMed:12709428). Induces gene expression by binding as monomers to the NR4A1 response element (NBRE) 5'-AAAAGGTCA-3' site and as homodimers to the Nur response element (NurRE) site in the promoter of their regulated target genes (By similarity). Plays a role in the regulation of proliferation, survival and differentiation of many different cell types and also in metabolism and inflammation. Mediates proliferation of vascular smooth muscle, myeloid progenitor cell and type B pancreatic cells, promotes mitogen-induced vascular smooth muscle cell proliferation through transactivation of SKP2 promoter by binding a NBRE

site (PubMed:21868379). Upon PDGF stimulation, stimulates vascular smooth muscle cell proliferation by regulating CCND1 and CCND2 expression. In islets, induces type B pancreatic cell proliferation through up-regulation of genes that activate cell cycle, as well as genes that cause degradation of the CDKN1A (By similarity). Negatively regulates myeloid progenitor cell proliferation by repressing RUNX1 in a NBRE site-independent manner (PubMed:24806827). During inner ear, plays a role as a key mediator of the proliferative growth phase of semicircular canal development (PubMed:11784868). Mediates also survival of neuron and smooth muscle cells, mediates CREB-induced neuronal survival, and during hippocampus development, plays a critical role in pyramidal cell survival and axonal guidance (PubMed:20566846, PubMed:15456880). Is required for S phase entry of the cell cycle and survival of smooth muscle cells by inducing CCND1, resulting in RB1 phosphorylation. Binds to NBRE motif in CCND1 promoter, resulting in the activation of the promoter and CCND1 transcription (PubMed:19153266). Also plays a role in inflammation, upon TNF stimulation, mediates monocyte adhesion by inducing the expression of VCAM1 and ICAM1 by binding to the NBRE consensus site (PubMed:20558821). In mast cells activated by Fc-epsilon receptor cross-linking, promotes the synthesis and release of cytokines but impairs events leading to degranulation (PubMed:24586680). Also plays a role in metabolism, by modulating feeding behavior, and by playing a role in energy balance by inhibiting the glucocorticoid-induced orexigenic neuropeptides AGRP expression, at least in part by forming a complex with activated NR3C1 on the AGRP- glucocorticoid response element (GRE), and thus weakening the DNA binding activity of NR3C1 (PubMed:23897430, PubMed:19523439). Upon catecholamines stimulation, regulates gene expression that controls oxidative metabolism in skeletal muscle (PubMed:18325999). Plays a role in glucose transport by regulating translocation of the SLC2A4 glucose transporter to the cell surface (By similarity). Finally, during gastrulation plays a crucial role in the formation of anterior mesoderm by controlling cell migration (PubMed:13129926). Inhibits adipogenesis (PubMed:18945812). Also participates in cardiac hypertrophy by activating PARP1 (By similarity). {ECO:0000250|UniProtKB:P51179, ECO:0000250|UniProtKB:Q92570, ECO:0000269|PubMed:11784868, ECO:0000269|PubMed:12709428, ECO:0000269|PubMed:13129926, ECO:0000269|PubMed:15456880, ECO:0000269|PubMed:18325999, ECO:0000269|PubMed:18945812, ECO:0000269|PubMed:19153266, ECO:0000269|PubMed:19523439, ECO:0000269|PubMed:20558821, ECO:0000269|PubMed:20566846, ECO:0000269|PubMed:21868379, ECO:0000269|PubMed:23897430, ECO:0000269|PubMed:24586680, ECO:0000269|PubMed:24806827}.

Target Details

Molecular Weight:	68.5 kDa
UniProt:	Q9QZB6
Pathways:	Fc-epsilon Receptor Signaling Pathway, Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated Signaling Pathway

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

