

Datasheet for ABIN7563332
TR4 Protein (AA 1-596) (His tag)



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Overview

Quantity:	1 mg
Target:	TR4 (NR2C2)
Protein Characteristics:	AA 1-596
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TR4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Nr2c2 Protein expressed in mammalian cells.
Sequence:	<p>MTSPSPRIQI ISTDSAVASP QRIQIVTDQQ TGQKIQIVTA VDASGSSKQQ FILTSPDGAG</p> <p>TGKVILASPE TSSAKQLIFT TSDNLVPGRI QIVTDSASVE RLLGKADVQR PQVVEYCVVC</p> <p>GDKASGRHYG AVSCEGCKGF FKRSVRKNLT YSCRSSQDCI INKHHRNRCQ FCRLKKCLEM</p> <p>GMKMESVQSE RKPFDVQREK PSNCAASTEK IYIRKDLRSP LIATPTFVAD KDGARQTGLL</p> <p>DPGMLVNIQQ PLIREDGTVL LAADSKAETS QGALGTLANV VTSLANLSES LNNGDASEMQ</p> <p>PEDQSASEIT RAFDTLAKAL NTTDSASPPS LADGIDASGG GSIHVISRQDQ STPIIEVEGP</p> <p>LLSDTHVTFK LTMPSPMPEY LNVHYICESA SROLLFLSMHW ARSIPAFQAL GQDCNTSLVR</p> <p>ACWNELFTLG LAQCAQVMSL STILAAIVNH LQNSIQEDKL SGDRKQVME HIWKLQEFCN</p> <p>SMAKLDIDGY EYAYLKAIVL FSPDHPGLTG TSQIEKFQEK AQMELQDYVQ KTYSEDYRL</p> <p>ARILVRLPAL RLMSSNITEE LFFTGLIGNV SIDSIIPIYL KMETAEYNGQ ITGASL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a</p>

different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	TR4 (NR2C2)
Alternative Name:	Nr2c2 (NR2C2 Products)
Background:	<p>Nuclear receptor subfamily 2 group C member 2 (Orphan nuclear receptor TAK1) (Orphan nuclear receptor TR4) (Testicular receptor 4),FUNCTION: Orphan nuclear receptor that can act as a repressor or activator of transcription. An important repressor of nuclear receptor signaling pathways such as retinoic acid receptor, retinoid X, vitamin D3 receptor, thyroid hormone receptor and estrogen receptor pathways. May regulate gene expression during the late phase of spermatogenesis. Activates transcriptional activity of LHCG and is antagonist of PPARA-mediated transactivation (By similarity). Together with NR2C1, forms the core of the DRED (direct repeat erythroid-definitive) complex that represses embryonic and fetal globin transcription including that of GATA1. Binds to hormone response elements (HREs) consisting of two 5'-AGGTCA-3' half site direct repeat consensus sequences. Plays a fundamental role in early embryonic development and embryonic stem cells. Required for normal spermatogenesis</p>

Target Details

	and cerebellum development. Appears to be important for neurodevelopmentally regulated behavior. {ECO:0000250, ECO:0000269 PubMed:12093744, ECO:0000269 PubMed:15199144, ECO:0000269 PubMed:16887930, ECO:0000269 PubMed:17706948, ECO:0000269 PubMed:17974920, ECO:0000269 PubMed:19131575, ECO:0000269 PubMed:20393820}.
Molecular Weight:	65.2 kDa
UniProt:	P49117
Pathways:	TCR Signaling , Nuclear Receptor Transcription Pathway , Steroid Hormone Mediated Signaling Pathway , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Tube Formation , Toll-Like Receptors Cascades

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 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