

Datasheet for ABIN7549904
NR4A1 Protein (AA 1-598) (His tag)



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Overview

Quantity:	1 mg
Target:	NR4A1
Protein Characteristics:	AA 1-598
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NR4A1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NR4A1 Protein expressed in mammalian cells.
Sequence:	MPCIQAQYGT PAPSPGPRDH LASDPLTPEF IKPTMDLASP EAAPAPTAL PSFSTFMDGY TGEFDTFLYQ LPGTVQPCSS ASSSASTSS SSATSPASAS FKFEDEFQVYG CYPGPLSGPV DEALSSSGSD YYGSPCSAPS PSTPSFQPPQ LSPWDGSGFH FSPSQTYEGL RAWTEQLPKA SGPPQPPAFF SFSPTGPSP SLAQSPKLF PSQATHQLGE GESYSMPTAF PGLAPTSPHL EGSGILDTPV TSTKARSGAP GGSEGRCAVC GDNASCQHYG VRTCEGCKGF FKRTVQKNAK YICLANKDCP VDKRRRNRCQ FCRFQKCLAV GMVKEVVRTD SLKRRRGRPL SKPKQPPDAS PANLLTSLVR AHLDSGPSTA KLDYSKFQEL VLPHFGKEDA GDVQQFYDLL SGSLEVIRKW AEKIPGFAEL SPADQDLLLL SAFLELFILR LAYRSKPGEG KLIFCSGLVL HRLQCARGFG DWIDSILAFS RSLHSLLDV PAFACLSALV LITDRHGLQE PRRVEELQNR IASCLKEHVA AVAGEPQPAS CLSRLGKLP ELRTLCTQGL QRIFYLKLED LVPPPIIDK IFMDTLPF 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

Product Details

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: NR4A1

Alternative Name: NR4A1 ([NR4A1 Products](#))

Background: Nuclear receptor subfamily 4immunitygroup A member 1 (Early response protein NAK1) (Nuclear hormone receptor NUR/77) (Nur77) (Orphan nuclear receptor HMR) (Orphan nuclear receptor TR3) (ST-59) (Testicular receptor 3),FUNCTION: Orphan nuclear receptor. Binds the NGFI-B response element (NBRE) 5'-AAAGGTCA-3' (PubMed:18690216, PubMed:9315652, PubMed:8121493). Binds 9-cis-retinoic acid outside of its ligand-binding (NR LBD) domain (PubMed:18690216). Participates in energy homeostasis by sequestering the kinase STK11 in the nucleus, thereby attenuating cytoplasmic AMPK activation (PubMed:22983157). Regulates the inflammatory response in macrophages by regulating metabolic adaptations during inflammation, including repressing the transcription of genes involved in the citric acid cycle (TCA) (By similarity). Inhibits NF-kappa-B signaling by binding to low-affinity NF-kappa-B binding

Target Details

sites, such as at the IL2 promoter (PubMed:15466594). May act concomitantly with NR4A2 in regulating the expression of delayed-early genes during liver regeneration (By similarity). Plays a role in the vascular response to injury (By similarity). {ECO:0000250|UniProtKB:P12813, ECO:0000250|UniProtKB:P22829, ECO:0000269|PubMed:15466594, ECO:0000269|PubMed:18690216, ECO:0000269|PubMed:22983157, ECO:0000269|PubMed:8121493, ECO:0000269|PubMed:9315652}., FUNCTION: In the cytosol, upon its detection of both bacterial lipopolysaccharide (LPS) and NBRE-containing mitochondrial DNA released by GSDMD pores during pyroptosis, it promotes non-canonical NLRP3 inflammasome activation by stimulating association of NLRP3 and NEK7. {ECO:0000250|UniProtKB:P12813}.

Molecular Weight: 64.5 kDa

UniProt: [P22736](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [Nuclear Receptor Transcription Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling 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