

Nuclear receptor ROR-gamma (RORC) Recombinant Protein | RORC recombinant protein

Recombinant Human Nuclear receptor ROR-gamma (RORC)

CATALOG # AAA18488	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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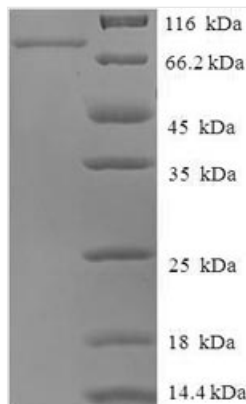
PRODUCT SYNONYMS

Nuclear receptor ROR-gamma (RORC); Recombinant Human Nuclear receptor ROR-gamma (RORC); Nuclear receptor RZR-gamma; Nuclear receptor subfamily 1 group F member 3; RAR-related orphan receptor C; Retinoid-related orphan receptor-gamma; RORC recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-518aa; Full Length
Sequence	MDRAPQRQHR ASRELLAAKK THTSQIEVIP CKICGDKSSG IHYGVITCEG CKGFFRRSQR CNAAYSCTRQ QNCPIDRTSR NRCQHCRLQK CLALGMSRDA VKFGRMSKKQ RDSLHAEVQK QLQQRQQQQQ EPVVKTPPAG AQGADTLTYT LGLPDGQLPL GSSPDLEAS ACPPGLLKAS GSGPSYSNNL AKAGLNGASC HLEYSPEGRK AEGRESFYST GSQ LTPDRCG LRFEEHRHPG LGELGQGPDS YGSPSFRSTP EAPYASLTEI EHLVQSVCKS YRETCQLRLE DLLRQRSNIF SREEVTGYQR KSMWEMWERC AHHLTEAIQY VVEFAKRLSG FMELCQNDQI VLLKAGAMEV VLVRMCRAYN ADNRTVFFEG KYGGMELFRA LGCSELISSI FDFSHLSAL HFSEDEIALY TALVLINahr PGLQEKRKVE QLQYNLELAF HHHLCKTHRQ SILAKLPPKG KLRLCSQHV ERLQIFQHLH PIVQAAFPF LYKELFSTET ESPVGLSK
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for RORC recombinant protein	Nuclear receptor that binds DNA as a monomer to ROR response elements (RORE) containing a single core motif half-site 5'-AGGTCA-3' preceded by a short A-T-rich sequence. Key regulator of cellular differentiation, immunity, peripheral circadian rhythm as well as lipid, steroid, xenobiotics and glucose metabolism. Considered to have intrinsic transcriptional activity, have some natural ligands like oxysterols that act as agonists (25-hydroxycholesterol) or inverse agonists (7-oxygenated sterols), enhancing or repressing the transcriptional activity, respectively. Recruits distinct combinations of cofactors to target gene regulatory regions to modulate their transcriptional expression, depending on the tissue, time and promoter contexts. Regulates the circadian expression of clock genes such as CRY1, ARNTL/BMAL1 and NR1D1 in peripheral tissues and in a tissue-selective manner. Competes with NR1D1 for binding to their shared DNA response element on some clock genes such as ARNTL/BMAL1, CRY1 and NR1D1 itself, resulting in NR1D1-mediated repression or RORC-mediated activation of the expression, leading to the circadian pattern of clock genes expression. Therefore influences the period length and stability of the clock. Involved in the regulation of the rhythmic expression of genes involved in glucose and lipid metabolism, including PLIN2 and AVPR1A. Negative regulator of adipocyte differentiation through the regulation of early phase genes expression, such as MMP3. Controls adipogenesis as well as adipocyte size and modulates insulin sensitivity in obesity. In liver, has specific and redundant functions with RORA as positive or negative modulator of expression of genes encoding phase I and Phase II proteins involved in the metabolism of lipids, steroids and xenobiotics, such as SULT1E1. Also plays also a role in the regulation of hepatocyte glucose metabolism through the regulation of G6PC and PCK1. Regulates the rhythmic expression of PROX1 and promotes its nuclear localization.
Product Categories/Family for RORC recombinant protein	Transcription

References

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NCBI AND UNIPROT INFORMATION

NCBI GI #	48255918
NCBI GeneID	6097
NCBI Accession #	NP_001001523.1
NCBI GenBank Nucleotide #	NM_001001523.1
UniProt Accession #	P51449; Q5SZR9; Q8N5V7; Q8NCY8
Molecular Weight	74.2 kDa
NCBI Official Full Name	nuclear receptor ROR-gamma isoform b
NCBI Official Synonym Full Names	RAR related orphan receptor C
NCBI Official Symbol	RORC
NCBI Official Synonym Symbols	TOR; RORG; RZRG; NR1F3; RZR-GAMMA

NCBI Protein Information	nuclear receptor ROR-gamma
UniProt Protein Name	Nuclear receptor ROR-gamma
UniProt Gene Name	RORC
UniProt Synonym Gene Names	NR1F3; RORG; RZRG
UniProt Entry Name	RORG_HUMAN

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