# Nuclear Receptor ROR-Beta (RORB) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Nuclear receptor ROR-beta (RORB), Recombinant Protein |
| **Full Product Name** | Recombinant Human Nuclear receptor ROR-beta (RORB) |
| **Product Gene Name** | RORB recombinant protein |
| **Product Synonym Gene Name** | RORB |
| **Sequence** | MCENQLKTKA DATAQIEVIP CKICGDKSSG IHYGVITCEG CKGFFRRSQQ NNASYSCPRQ RNCLIDRTNR NRCQHCRLQK CLALGMSRDA VKFGRMSKKQ RDSLYAEVQK HQQRLQEQRQ QQSGEAEALA RVYSSSISNG LSNLNNETSG TYANGHVIDL PKSEGYYNVD SGQPSPDQSG LDMTGIKQIK QEPIYDLTSV PNLFTYSSFN NGQLAPGITM TEIDRIAQNI IKSHLETCQY TMEELHQLAW QTHTYEEIKA YQSKSREALW QQCAIQITHA IQYVVEFAKR ITGFMELCQN DQILLLKSGC LEVVLVRMCR AFNPLNNTVL FEGKYGGMQM FKALGSDDLV NEAFDFAKNL CSLQLTEEEI ALFSSAVLIS PDRAWLIEPR KVQKLQEKIY FALQHVIQKN HLDDETLAKL IAKIPTITAV CNLHGEKLQV FKQSHPEIVN TLFPPLYKEL FNPDCATGCK |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 52,073 Da |
| **Sequence Positions** | 1-470, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 601972 |
| **3D Structure** | ModBase 3D Structure for Q92753 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for RORB recombinant protein** | This protein is a member of the NR1 subfamily of nuclear hormone receptors. It is a DNA-binding protein that can bind as a monomer or as a homodimer to hormone response elements upstream of several genes to enhance the expression of those genes. The specific functions of this protein are not known, but it has been shown to interact with NM23-2, a nucleoside diphosphate kinase involved in organogenesis and differentiation. |
| **Other Notes** | Small volumes of RORB recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for RORB purchase** | MBS1420315 is a recombinant protein targeting RORB. Also known as Recombinant Human Nuclear receptor ROR-beta (RORB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RORB. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 124028630 |
| **NCBI GeneID** | 6096 |
| **NCBI Accession #** | Q92753.3 |
| **UniProt Primary Accession #** | Q92753 |
| **UniProt Secondary Accession #** | Q8WX73 |
| **UniProt Related Accession #** | Q92753 |
| **NCBI Official Full Name** | Nuclear receptor ROR-beta |
| **NCBI Official Synonym Full Names** | RAR related orphan receptor B |
| **NCBI Official Symbol** | RORB |
| **NCBI Official Synonym Symbols** | RZRB; NR1F2; ROR-BETA; RZR-BETA; bA133M9.1 |
| **UniProt Protein Name** | Nuclear receptor ROR-beta |
| **UniProt Synonym Protein Names** | Nuclear receptor RZR-beta; Nuclear receptor subfamily 1 group F member 2; Retinoid-related orphan receptor-beta |
| **Protein Family** | Nuclear receptor |
| **UniProt Gene Name** | RORB |
| **UniProt Synonym Gene Names** | NR1F2; RZRB |
| **NCBI Protein Information** | nuclear receptor ROR-beta |
| **NCBI Summary for RORB** | The protein encoded by this gene is a member of the NR1 subfamily of nuclear hormone receptors. It is a DNA-binding protein that can bind as a monomer or as a homodimer to hormone response elements upstream of several genes to enhance the expression of those genes. The encoded protein has been shown to interact with NM23-2, a nucleoside diphosphate kinase involved in organogenesis and differentiation, and to help regulate the expression of some genes involved in circadian rhythm. [provided by RefSeq, Feb 2014] |
| **UniProt Comments for RORB** | 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. Considered to have intrinsic transcriptional activity, have some natural ligands such as all-trans retinoic acid (ATRA) and other retinoids which act as inverse agonists repressing the transcriptional activity. Required for normal postnatal development of rod and cone photoreceptor cells. Modulates rod photoreceptors differentiation at least by inducing the transcription factor NRL-mediated pathway. In cone photoreceptor cells, regulates transcription of OPN1SW. Involved in the regulation of the period length and stability of the circadian rhythm. May control cytoarchitectural patterning of neocortical neurons during development. May act in a dose-dependent manner to regulate barrel formation upon innervation of layer IV neurons by thalamocortical axons. May play a role in the suppression of osteoblastic differentiation through the inhibition of RUNX2 transcriptional activity (). |
| **Research Articles on RORB** | **1.** Results show that NRIP2 regulates the activity of the Wnt pathway via RORbeta. RORbeta inhibits tumorigenesis and the self-renewal of cancer initiating cells (CCICs) and targets HBP1 in regulating Wnt pathway to inhibit tumorigenesis and the self-renewal of CCICs. |
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