NR1D2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	NR1D2, Blocking Peptide
Full Product Name	NR1D2 Blocking Peptide
Product Gene Name	NR1D2 blocking peptide
Product Synonym Names	BD73; EAR 1R; EAR-1R; HZF2; Nr1d2; NR1D2_HUMAN; Nuclear receptor Rev ErbA beta variant 1; Nuclear receptor Rev ErbA beta variant 2; Nuclear receptor subfamily 1 group D member 2; Orphan nuclear hormone receptor BD73; Rev erb beta; Rev erba alpha related receptor; Rev-erb-beta; REVB; REVERBB; RVR; V-erbA-related protein 1-related
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	NR1D2 peptide (MBS9621898) is used for blocking the activity of NR1D2 antibody (MBS9611945)
Molecular Weight	64,625 Da
OMIM	602304
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for NR1D2 blocking peptide	Blocking/Control
Related Product Information for NR1D2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of NR1D2 blocking peptide 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 NR1D2 purchase	MBS9621898 is a blocking peptide targeting NR1D2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NR1D2. It may not necessarily be applicable to this product.

NCBI GI #	224177491
NCBI GeneID	9975
NCBI Accession #	NP_005117.3
UniProt Primary Accession #	Q14995

UniProt Secondary Accession #	O00402; Q86XD4; B2R8Q3
UniProt Related Accession #	Q14995
GenBank Nucleotide #	NP_005117.3
NCBI Official Full Name	nuclear receptor subfamily 1 group D member 2 isoform 1
NCBI Official Synonym Full Names	nuclear receptor subfamily 1, group D, member 2
NCBI Official Symbol	NR1D2
NCBI Official Synonym Symbols	RVR; BD73; EAR-1R
UniProt Protein Name	Nuclear receptor subfamily 1 group D member 2
UniProt Synonym Protein Names	Orphan nuclear hormone receptor BD73; Rev-erb alpha-related receptor; RVR; Rev-erb-beta; V-erbA-related protein 1-related
Protein Family	Nuclear receptor subfamily
UniProt Gene Name	NR1D2
UniProt Synonym Gene Names	RVR; EAR-1R
UniProt Entry Name	NR1D2_HUMAN
NCBI Protein Information	nuclear receptor subfamily 1 group D member 2; rev-erb-beta; rev-erb alpha-related receptor; rev-erba-alpha-related receptor; V-erbA-related protein 1-related; orphan nuclear hormone receptor BD73; nuclear receptor Rev-ErbA beta variant 1; nuclear recepto
NCBI Summary for NR1D2	This gene encodes a member of the nuclear hormone receptor family, specifically the NR1 subfamily of receptors. The encoded protein functions as a transcriptional repressor and may play a role in circadian rhythms and carbohydrate and lipid metabolism. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2009]
UniProt Comments for NR1D2	NR1D2: Binds to the sequences 5'-AATGTAGGTCA-3' and 5'- ATAACTAGGTCA-3'. Acts as a potent competitive repressor of ROR alpha function. Belongs to the nuclear hormone receptor family. NR1 subfamily. Protein type: Nuclear receptor; DNA-binding Chromosomal Location of Human Ortholog: 3p24.2 Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding; ligand-dependent nuclear receptor activity; zinc ion binding; steroid hormone receptor activity Biological Process: transcription initiation from RNA polymerase II promoter; intracellular receptor-mediated signaling pathway; regulation of lipid metabolic process; regulation of transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; regulation of inflammatory response; rhythmic process; lipid homeostasis; gene expression; steroid hormone mediated signaling; negative regulation of transcription, DNA-dependent; regulation of circadian rhythm
Research Articles on NR1D2	**1.** Our results suggest that the REV-ERBalpha rs2071427 polymorphism modulates body fat mass in both adult and young people.
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