

Active Recombinant Human Nuclear Receptor Subfamily 1, Group D, Member 2

Cat. No. NRID2-1150H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Sf9 Cells

Description

Nuclear receptors form the largest known family of transcription factors and have a crucial role in nearly all aspects of vertebrate development and adult physiology by transducing the effects of hormones into transcriptional responses. The Rev-erb family of proteins are orphan members of the receptor superfamily. Two isoforms of the Rev-erb family have been isolated from mammalian genotypes, Rev-erbA [alpha] and Rev-erbA [beta]/RVR. Major differences between the two isoforms occur within the hyper-variable A/B and D regions of the proteins. The Rev-erb family has also been demonstrated to bind as homodimers to novel HREs consisting of two tandemly arranged AGGTCA motifs, separated by 2 bp with unique 5' flanking and spacer nucleotides (RevDR-2). Reports on the transcriptional properties of the Rev-erb family were initially conflicting. Rev-erbA [alpha] was first reported to act as a constitutive activator of transcription through its cognate monomeric asymmetric motif. Recently, it has been demonstrated that members of the Rev-erb family are, in fact, dominant repressors of transcription. Rev-erbA [beta] is expressed in the central nervous system, skeletal and dorsal muscles, spleen and mandibular and maxillary processes. During embryogenesis RVR is expressed in the notochord and neural tube, but its function/role during differentiation and mammalian development remains obscure.

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Usage	For in vitro use only.
Form	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 20% glycerol, 100 mM KCl, 0.2 mM EDTA and 1 mM DTT.
Activity	1 ng is the amount sufficient for a gel mobility shift assay in a 20µl reaction and 100 ng are sufficient for a protein-protein interaction assay detected by immuno-blot system.
Purity	> 95% by SDS-PAGE.
Storage	Quality guaranteed for 12 months, Store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	NR1D2 nuclear receptor subfamily 1, group D, member 2 [Homo sapiens]
Synonyms	NR1D2; nuclear receptor subfamily 1, group D, member 2; RVR; BD73; EAR-1R; rev-erb-beta; rev-erba-alpha-related receptor; orphan nuclear hormone receptor BD73
Gene ID	9975
mRNA Refseq	NM_001145425
Protein Refseq	NP_001138897
MIM	602304
UniProt ID	Q14995
Chromosome	3p24.1

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Location**Function**

metal ion binding; sequence-specific DNA binding; steroid hormone receptor activity; transcription factor activity; zinc ion binding

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