

Active Recombinant Human NR1H2, 211-461aa

Cat. No. NR1H2-1061H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Description

Liver X Receptors (LXRs) are nuclear receptors that regulate the metabolism of cholesterol and bile acids. There are two subtypes of LXRs, LXR α and LXR β . LXR α is preferentially expressed in liver, small intestine, kidney and spleen. In contrast, LXR β expression is ubiquitous. The genomic structure and the promoter regions of the two LXR genes contain specific regulatory sites, which suggest that LXRs may have physiological roles in the immune system. Like other nuclear receptors, LXRs heterodimerize with Retinoid X Receptor (RXR) for function. LXRs are activated by naturally occurring oxysterols and regulate the expression of target genes, including ATP binding cassette transporter 1 (ABC1), ATP binding cassette transporter 8 (ABC8) and cholesterol ester transfer protein (CETP). LXR β expressed in livers of LXR α knockout mice does not compensate for the loss of LXR α . In addition, LXR β , but not LXR α , is also able to activate transcription of a reporter gene, which contains a specific direct repeat separated by 1 bp (DR1) element in the promoter, suggesting that LXR β may have different biological functions. Recombinant LXR is isolated from an *E. coli* strain that carries the coding sequence of the human LXR from amino acids 211-461 under the control of a T7 promoter.

Application LXR has been applied in DNA and protein-protein interactions assays.

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

GENE INFORMATION

Gene Name	NR1H2 nuclear receptor subfamily 1, group H, member 2 [Homo sapiens]
Synonyms	NR1H2; nuclear receptor subfamily 1, group H, member 2; NER; UNR; LXRB; LXR-b; NER-I; RIP15; LX receptor beta; liver X receptor beta; liver X receptor-beta; nuclear orphan receptor LXR-beta; oxysterols receptor LXR-beta; steroid hormone-nuclear receptor NER; ubiquitously-expressed nuclear receptor
Gene ID	7376
mRNA Refseq	NM_007121
Protein Refseq	NP_009052
MIM	600380
UniProt ID	P55055

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**Chromosome
Location**

19q13.3-q13.3

Pathway

Gene Expression

Function

metal ion binding; protein binding; sequence-specific DNA binding; thyroid hormone receptor activity; transcription coactivator activity; zinc ion binding; steroid hormone receptor activity

PDB rendering based
on 1p8d.

