

Active Recombinant Human NR1H2, His-tagged

Cat. No. NR1H2-2503H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human His tagged LXR- β is isolated from an <i>E. coli</i> strain that carries the coding sequence of the human LXR- β under the control of a T7 promoter. 62 kDa.
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, LXRα and LXR-β. LXR-β is preferentially expressed in liver, small intestine, kidney and spleen. In contrast, LXRα 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 LXRα knockout mice does not compensate for the loss of LXRα. In addition, LXR-β, but not LXRα, 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.
Applications	LXR- β can be used for DNA and protein-protein interactions assays.

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Activity	1 unit equals 1 nanogram of purified protein. 20 units are sufficient for a gel-mobility shift assay and 100 units are sufficient for a protein-protein interaction assay.
Quality Control	The purified recombinant protein is greater than 95% homogeneous based on SDS-PAGE analysis.
Reagents Supplied	1x dilution buffer A: 20 mM Tris-Cl (pH 7.9), 20% Glycerol, 100 mM KCl, 0.2 mM EDTA and 1 mM DTT.
Storage Conditions	Store at -80°C.
Pathways	Gene Expression

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
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.

