

## Active Recombinant Human NR1H3, LB Domain, GST-tagged

Cat. No. NR1H3-1057H Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>Liver X Receptors (LXRs) are nuclear receptors that regulate the metabolism of cholesterol and bile acids. There are two subtypes of LXRs, LXR<math>\alpha</math> and LXR<math>\beta</math>. LXR<math>\alpha</math> is preferentially expressed in liver, small intestine, kidney and spleen. In contrast, LXR<math>\beta</math> 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). The ligand binding domain (LBD) of LXR determines ligand specificity and mediates the trans-activation function of the receptor. Recombinant GST-LXR-LBD is isolated from an <i>E. coli</i> strain that carries the coding sequence of the human LXR under the control of a T7 promoter.</p>
<b>Application</b>	GST-LXR-LBD has been applied in DNA and protein-protein interaction assays.
<b>Usage</b>	For in vitro use only.
<b>Form</b>	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 100 mM KCl, 0.2 mM EDTA, 1 mM DTT and 20% glycerol.

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<b>Activity</b>	20 ng are sufficient for a gel-mobility shift assay and 100 ng are sufficient for a protein-protein interaction assay.
<b>Purity</b>	> 95% by SDS-PAGE.
<b>Storage</b>	Quality guaranteed for 12 months, Store at -80°C. Avoid freeze / thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	NR1H3 nuclear receptor subfamily 1, group H, member 3 [ Homo sapiens ]
<b>Synonyms</b>	NR1H3; nuclear receptor subfamily 1, group H, member 3; LXRA; LXR-a; RLD-1; OTTHUMP00000198038; liver X receptor alpha; liver X receptor, alpha; liver X receptor-alpha; TLS/CHOP; Nuclear receptor subfamily 1 group H member 3; Nuclear orphan receptor LXR-alpha
<b>Gene ID</b>	10062
<b>mRNA Refseq</b>	NM_001130101
<b>Protein Refseq</b>	NP_001123573
<b>MIM</b>	602423
<b>UniProt ID</b>	Q13133
<b>Chromosome Location</b>	11p11.2
<b>Pathway</b>	PPAR signaling pathway; Gene Expression; Metabolism of lipids and lipoproteins

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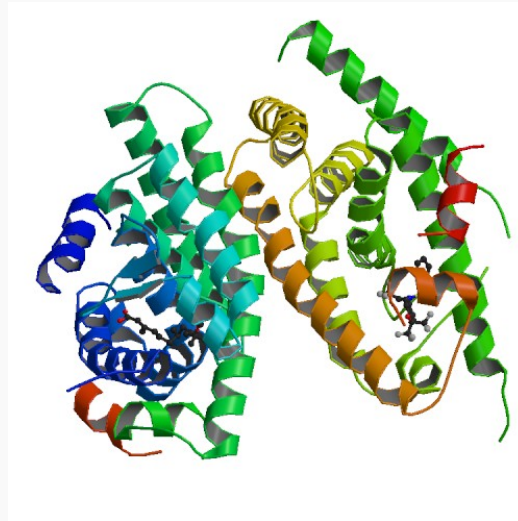
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**Function**

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 1uhl.**



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