Active Recombinant Human NR1H3, GST-tagged

Cat. No. NR1H3-1055H **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, LXRα and LXRβ. LXRα is preferentially expressed in liver, small intestine, kidney and spleen. In contrast, LXRβ 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 is thought to play a major role in the control of cholesterol catabolism by stimulating the expression of cholesterol 7alpha-hydroxylase (CYP7A1), the rate limiting enzyme of bile acid synthesis. Recombinant GST-LXR is isolated from an*E. coli*strain that carries the coding sequence of the human LXR under the control of a T7 promoter.
Application	GST-LXR has been applied in DNA and protein-protein interactions assays.
Usage	For in vitro use only.

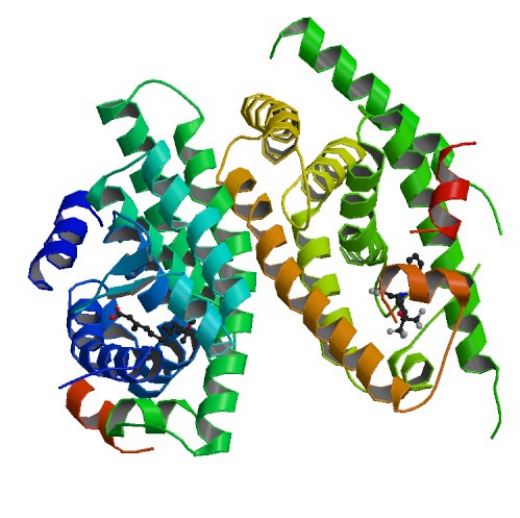
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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	NR1H3 nuclear receptor subfamily 1, group H, member 3 [Homo sapiens]
Synonyms	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
Gene ID	10062
mRNA Refseq	NM_001130101
Protein Refseq	NP_001123573
MIM	602423
UniProt ID	Q13133
Chromosome Location	11p11.2

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Pathway	PPAR signaling pathway; Gene Expression; Metabolism of lipids and lipoproteins
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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