

Recombinant Mouse Nr1h2 Protein, Myc/DDK-tagged

Cat. No. Nr1h2-4485M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length nuclear receptor subfamily 1, group H, member 2 (Nr1h2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description Nuclear receptor that exhibits a ligand-dependent transcriptional activation activity. Binds preferentially to double-stranded oligonucleotide direct repeats having the consensus half-site sequence 5'-AGGTCA-3' and 4-nt spacing (DR-4). Regulates cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8; DLDLR and LRP8. Interplays functionally with RORA for the regulation of genes involved in liver metabolism. Induces LPCAT3-dependent phospholipid remodeling in endoplasmic reticulum (ER) membranes of hepatocytes, driving SREBF1 processing and lipogenesis. Via LPCAT3, triggers the incorporation of arachidonate into phosphatidylcholines of ER membranes, increasing membrane dynamics and enabling triacylglycerols transfer to nascent very low-density lipoprotein (VLDL) particles Via LPCAT3 also counteracts lipid-induced ER stress response and inflammation, likely by modulating SRC kinase membrane compartmentalization and limiting the synthesis of lipid inflammatory mediators Plays an anti-inflammatory role during the hepatic acute phase response by acting as a corepressor: inhibits the hepatic acute phase response by preventing dissociation of the N-Cor corepressor complex.

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Molecular Mass	49.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Nr1h2 nuclear receptor subfamily 1, group H, member 2 [Mus musculus (house mouse)]
Official Symbol	Nr1h2
Synonyms	NR1H2; nuclear receptor subfamily 1, group H, member 2; oxysterols receptor LXR-beta; LXR beta; liver X receptor beta; ubiquitously-expressed nuclear receptor 2; retinoid X receptor-interacting protein No.15; UR; LXR; Unr; LXRB; NER1; OR-1; Unr2; RIP15; LXRBeta; AI194859
Gene ID	22260
mRNA Refseq	NM_009473
Protein Refseq	NP_033499

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UniProt ID

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