

Recombinant Human NR5A2, GST-tagged

Cat. No. NR5A2-1053H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Description

LRH-1 (NR5A2) is expressed specifically in pancreas and liver, playing important roles in the regulation of several liver-specific genes. LRH-1 is a mammalian homologue of Drosophila fushi tarazu factor (dFTZ-F1) and structurally belongs to the orphan nuclear receptor superfamily. The liver-specific activity of ENII is regulated by multiple liver-enriched transcription factors, including LRH-1/hB1F. The role LRH-1 and dosage-sensitive sex reversal, adrenal hypoplasia congenital critical region on the X chromosome, gene 1 (DAX-1) in the regulation of StAR gene expression in human granulosa cell tumor cells has been investigated. LRH-1, is expressed in granulosa cells and has been shown to synergize with the cAMP signaling system to regulate the gonadal type II aromatase promoter in transient transfection assays. Observations support a direct role for LRH-1 in the induction of the progesterone but not the estrogen biosynthetic pathway during granulosa cell differentiation. The human nuclear receptor liver receptor homolog 1 (hLRH-1) plays an important role in the development of breast carcinomas. Results indicate that hLRH-1's control of gene expression is mediated by phospholipid binding, and establish hLRH-1 as a novel target for compounds designed to slow breast cancer development.

Application

Purified LRH-1 can be used for DNA, protein-protein interaction, and gel mobility shift 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.
Purity	> 95% by SDS-PAGE.
Storage	Quality guaranteed for 12 months, Store at -80°C. Avoid freeze / thaw cycles.
nullValue_other	Maturity onset diabetes of the young; Gene Expression; Regulation of beta-cell development

GENE INFORMATION

Gene Name	NR5A2 nuclear receptor subfamily 5, group A, member 2 [Homo sapiens]
Synonyms	NR5A2; nuclear receptor subfamily 5, group A, member 2; B1F; CPF; FTF; B1F2; LRH1; hB1F; LRH-1; FTZ-F1; hB1F-2; FTZ-F1beta; nuclear receptor NR5A2; liver receptor homolog-1; liver receptor homolog 1; CYP7A promoter-binding factor; fetoprotein-alpha 1 (AFP) transcription factor; b1-binding factor, hepatocyte transcription factor which activates enhancer II of hepatitis B virus
Gene ID	2494
mRNA Refseq	NM_003822
Protein Refseq	NP_003813
MIM	604453
UniProt ID	O00482

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Chromosome Location	1q32.11
Function	RNA polymerase II transcription factor activity, enhancer binding; lipid binding; metal ion binding; protein binding; steroid hormone receptor activity; transcription activator activity; zinc ion binding

PDB rendering based on 1yok.

