

## 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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|                        |                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------|
| <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. |
| <b>Purity</b>          | > 95% by SDS-PAGE.                                                                             |
| <b>Storage</b>         | Quality guaranteed for 12 months, Store at -80°C. Avoid freeze / thaw cycles.                  |
| <b>nullValue_other</b> | Maturity onset diabetes of the young; Gene Expression; Regulation of beta-cell development     |

## GENE INFORMATION

|                       |                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | NR5A2 nuclear receptor subfamily 5, group A, member 2 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>       | 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 |
| <b>Gene ID</b>        | 2494                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>    | NM_003822                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b> | NP_003813                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>            | 604453                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>     | O00482                                                                                                                                                                                                                                                                                                                                                                                     |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 1q32.11                                                                                                                                                                                                     |
| <b>Function</b>            | 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.

