

## Recombinant Human NR1H4, His-tagged

**Cat. No.** NR1H4-26712TH    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant full length human Bile Acid Receptor NR1H4 with His tag, Predicted MWt 56kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>         | This gene encodes a ligand-activated transcription factor, which shares structural features in common with nuclear hormone receptor family, such as a DNA-binding domain that targets the receptor to specific DNA sequences, and a ligand-binding domain, which interacts directly with the ligand and contains a ligand-dependent transcriptional activation domain. This protein functions as a receptor for bile acids, and when bound to bile acids, regulates the expression of genes involved in bile acid synthesis and transport. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. |
| <b>Conjugation</b>         | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Biological activity</b> | 1 unit equals 1 nanogram purified protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>              | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage buffer</b>      | Preservative: None<br>Constituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                              |                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------|
|                              | chloride, 1mM DTT, 0.2mM EDTA, pH 8.0                                                                          |
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                      |
| <b>Sequence Similarities</b> | Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain. |
| <b>Full Length</b>           | Full L.                                                                                                        |

## GENE INFORMATION

|                            |                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | NR1H4 nuclear receptor subfamily 1, group H, member 4 [ Homo sapiens ]                               |
| <b>Official Symbol</b>     | NR1H4                                                                                                |
| <b>Synonyms</b>            | NR1H4; nuclear receptor subfamily 1, group H, member 4; bile acid receptor; FXR; HRR 1; HRR1; RIP14; |
| <b>Gene ID</b>             | 9971                                                                                                 |
| <b>mRNA Refseq</b>         | NM_001206977                                                                                         |
| <b>Protein Refseq</b>      | NP_001193906                                                                                         |
| <b>MIM</b>                 | 603826                                                                                               |
| <b>Uniprot ID</b>          | Q96RI1                                                                                               |
| <b>Chromosome Location</b> | 12q23.1                                                                                              |

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| Pathway  | Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem; |
| Function | ligand-dependent nuclear receptor activity; metal ion binding; protein binding; receptor activity; sequence-specific DNA binding;                                                                                                                                |

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