

# Recombinant Human Liver X receptor-LBD, His-tagged

**Cat. No.** NR1H2-010N    **Lot. No.** (See product label)

## SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Produced by transient expression of LXR in non-transgenic plants. Recombinant human LXR contains a 6-His-tag at the N-terminal end and is purified by sequential chromatography (FPLC). Contains no animal-derived components or impurities.                                                                                                                                                                                                                                             |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>            | Nicotiana Benthamiana                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>       | Liver X Receptors (LXRs) are nuclear receptors that regulate the metabolism of cholesterol and bile acids. There are two subtypes of LXRs, LXR $\alpha$ and LXR $\beta$ . The LXRs are ligand-dependent transcription factors that form permissive heterodimers with the retinoid X receptor (RXR). LXR- member of Nuclear Receptor Family is activated by certain oxysterol derivatives of cholesterol. They play an important role in cholesterol, lipid, and carbohydrate metabolism. |
| <b>Sequence</b>          | HHHHHHSSGIEGRGRLIKHMTPLGGSEAGSQGSGEGERVQLTAAQELMIQQLVAAQ<br>LQCNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAIISVQEIVDFAKQVPGF<br>LQLGREDQIALLKASTIEIMLLETARRYNHETECITFLKDFITYSKDDFHRAGLQVEFIN<br>PIFEFSRAMRRLGLDDAEYALLIAINIFSADRPNVQEPGRVEALQQPYVEALLSYTRIK<br>RPQDQLRFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPLLSEIWDVHE                                                                                                                                                                               |
| <b>Formulation</b>       | Lyophilized from a Tris HCl 20mM buffer at pH 8, 0.1% SDS.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular formula</b> | C1422H2249N409O415S8                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extinction coefficient</b> | E0.1% = 0.581 (A280 nm).                                                                                                                                                                                        |
| <b>Molecular weight</b>       | 31.9 kDa (201-461 amino acids)                                                                                                                                                                                  |
| <b>Purity</b>                 | > 97% by SDS-PAGE gel.                                                                                                                                                                                          |
| <b>Endotoxin level</b>        | < 0.04 EU/μg protein (LAL method)                                                                                                                                                                               |
| <b>Storage</b>                | This lyophilized preparation is stable at 2-8° C. For long storage should be kept at -20° C and it is recommended to add a carrier protein (0.1% HSA or BSA). Repeated freezing and thawing is not recommended. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NR1H2 nuclear receptor subfamily 1, group H, member 2 [ Homo sapiens ]                                                                                                                                                                                                                                     |
| <b>Official Symbol</b> | NR1H2                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | NR1H2; nuclear receptor subfamily 1, group H, member 2; NER; UNR; LXRβ; LXR-b; NER-I; RIP15; liver X receptor beta; liver X receptor-beta; nuclear orphan receptor LXR-beta; oxysterols receptor LXR-beta; steroid hormone-nuclear receptor NER; ubiquitously-expressed nuclear receptor; LX receptor beta |
| <b>Gene ID</b>         | 7376                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_007121                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_009052                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>             | 600380                                                                                                                                                                                                                                                                                                     |

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|------------------------|-----------------|
| UniProt ID             | P55055          |
| Chromosome<br>Location | 19q13.3         |
| Function               | Gene Expression |

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