# Recombinant Human NR0B2 Protein (Met1-Arg257), His tagged

**Cat. No.** NR0B2-3606H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human SHP (Met1-Arg257) protein fused with His tag was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Met1-Arg257 |
| **Description** | Transcriptional regulator that acts as a negative regulator of receptor-dependent signaling pathways. Specifically inhibits transactivation of the nuclear receptor with which it interacts. Inhibits transcriptional activity of NEUROD1 on E-box-containing promoter by interfering with the coactivation function of the p300/CBP-mediated transcription complex for NEUROD1. Essential component of the liver circadian clock which via its interaction with NR1D1 and RORG regulates NPAS2-mediated hepatic lipid metabolism. Regulates the circadian expression of cytochrome P450 (CYP) enzymes. Represses: NR5A2 and HNF4A to down-regulate CYP2C38, NFLI3 to up-regulate CYP2A5, BHLHE41/HNF1A axis to up-regulate CYP1A2, CYP2E1 and CYP3A11, and NR1D1 to up-regulate CYP2B10, CYP4A10 and CYP4A14. |
| **Molecular Mass** | 29.18 kDa |
| **Purity** | >90 % as determined by SDS-PAGE. |
| **Notes** | For research use only. |

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| **Storage** | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| **Storage Buffer** | Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5. |
| **Reconstitution** | Reconstitute in sterile water for a stock solution. |
| **Shipping** | In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise. |

## GENE INFORMATION

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| **Gene Name** | NR0B2 nuclear receptor subfamily 0, group B, member 2 [ Homo sapiens (human) ] |
| **Official Symbol** | NR0B2 |
| **Synonyms** | NR0B2; nuclear receptor subfamily 0, group B, member 2; nuclear receptor subfamily 0 group B member 2; SHP; nuclear receptor SHP; small heterodimer partner; orphan nuclear receptor SHP; SHP1; FLJ17090; |
| **Gene ID** | 8431 |
| **mRNA Refseq** | NM_021969 |
| **Protein Refseq** | NP_068804 |
| **MIM** | 604630 |
| **UniProt ID** | Q15466 |

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