# Recombinant Human NR1I3

**Cat. No.** NR1I3-26256TH **Lot. No.** (See product label)

## SPECIFICATION

| | |
|---|---|
| **Product Overview** | Recombinant fragment corresponding to the Ligand Binding Domain of Human Constitutive androstane receptor with proprietary tag. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | This gene encodes a member of the nuclear receptor superfamily, and is a key regulator of xenobiotic and endobiotic metabolism. The protein binds to DNA as a monomer or a heterodimer with the retinoid X receptor and regulates the transcription of target genes involved in drug metabolism and bilirubin clearance, such as cytochrome P450 family members. Unlike most nuclear receptors, this transcriptional regulator is constitutively active in the absence of ligand but is regulated by both agonists and inverse agonists. Ligand binding results in translocation of this protein to the nucleus, where it activates or represses target gene transcription. These ligands include bilirubin, a variety of foreign compounds, steroid hormones, and prescription drugs. Multiple transcript variants encoding different isoforms have been found for this gene. |
| **Form** | Liquid |
| **Purity** | Immunogen affinity purified |
| **Storage buffer** | Preservative: NoneConstituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0 |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **Storage** | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles. |

## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | NR1I3 nuclear receptor subfamily 1, group I, member 3 [ Homo sapiens ] |
| **Official Symbol** | NR1I3 |
| **Synonyms** | NR1I3; nuclear receptor subfamily 1, group I, member 3; nuclear receptor subfamily 1 group I member 3; CAR; CAR1; constitutive androstane receptor; MB67; |
| **Gene ID** | 9970 |
| **mRNA Refseq** | NM_001077469 |
| **Protein Refseq** | NP_001070937 |
| **MIM** | 603881 |
| **Uniprot ID** | Q14994 |
| **Chromosome Location** | 1q23.3 |
| **Pathway** | Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem; Nuclear Receptors, organism-specific biosystem; |
| **Function** | DNA binding; androgen receptor activity; ligand-dependent nuclear receptor activity; |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| | metal ion binding; receptor activity; |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA