# Active Recombinant Human Nuclear Receptor Subfamily 1, Group I, Member 3

**Cat. No.** NR1I3-1020H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | The constitutive androstane receptor (CAR) was identified as a member of the orphan nuclear hormone receptor family in 1994. Although constitutively acitve, it can be further activated by 'phenobarbitol-like' compounds, the most potent being the synthetic compound TCPOBOP. Upon activation, CAR regulates the xenobiotic drug metabolizing enzymes, cytochrome P450s. There are several overlapping functions between the nuclear receptors PXR and CAR. Recently, CAR, as well as PXR, has been shown to place a role in bile acid clearance and cholestatic liver injury. |
| **Form** | Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 100 mM KCl, 0.2 mM EDTA, 1 mM DTT and 20% glycerol. |
| **Purity** | > 95% by SDS-PAGE. |
| **Activity** | 20-200 ng are sufficient for an in vitro transcription assay and 100 ng are sufficient for a protein-protein interaction assay. |
| **Application** | Use only for research. CAR can be applied in in vitro transcription assays, DNA-protein and protein-protein interaction assays. |

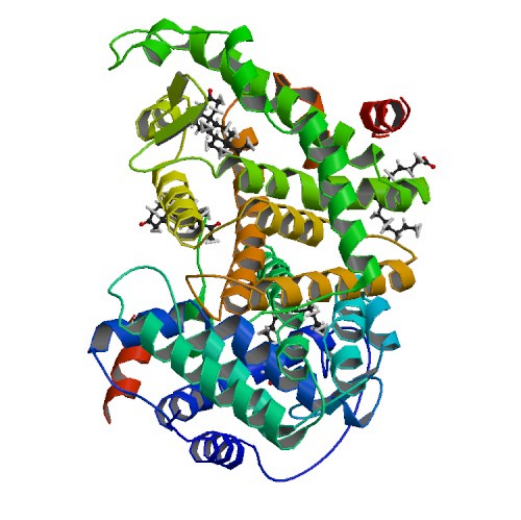
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| **Usage** | For in vitro use only. |
| **Storage** | Quality guaranteed for 12 months store at - 80°C. Avoid freeze / thaw cycles. |

## GENE INFORMATION

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| **Gene Name** | NR1I3 nuclear receptor subfamily 1, group I, member 3 [ Homo sapiens ] |
| **Synonyms** | NR1I3; nuclear receptor subfamily 1, group I, member 3; CAR; CAR1; MB67; MGC97144; MGC97209; MGC150433; constitutive androstane receptor; OTTHUMP00000032246; constitutive active receptor; orphan nuclear hormone receptor; constitutive activator of retinoid response; Nuclear receptor subfamily 1 group I member 3; Orphan nuclear receptor MB67; OTTHUMP00000032245 |
| **Gene ID** | 9970 |
| **mRNA Refseq** | NM_001077469 |
| **Protein Refseq** | NP_001070937 |
| **MIM** | 603881 |
| **UniProt ID** | Q14994 |
| **Chromosome Location** | 1q23.3 |
| **Function** | androgen receptor activity; metal ion binding; protein binding; sequence-specific DNA binding; transcription coactivator activity; transcription factor activity; zinc ion binding |

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| **PDB rendering based on 1xv9.** |  |

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