

Active Recombinant Human NR1I3, Ligand Binding Domain

Cat. No. NR1I3-1021H Lot. No. (See product label)

SPECIFICATION

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 active, it can be further activated by 'phenobarbital-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, have been shown to play a role in bile acid clearance and cholestatic liver injury.
Form	Liquid. Supplied in 20mM Tris-HCl pH8.0, 20% glycerol, 100mM KCl, 0.2mM EDTA and 1mM DTT.
Activity	20-200ng are sufficient for an in vitro transcription assay and 100ng are sufficient for a protein-protein interaction assay.
Application	Use only for research. GST-CAR-LBD can be applied in in vitro transcription assays, DNA-protein and protein interaction assays.
Purity	>95% by SDS-PAGE.

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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	
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; Constitutive androstane receptor; Constitutive activator of retinoid response; Constitutive active response; Orphan nuclear receptor MB67; MGC97144; OTTHUMP00000032245
Gene ID	9970
mRNA Refseq	NM_001077469
Protein Refseq	NP_001070937
MIM	603881
UniProt ID	Q14994
Chromosome Location	1q23.3
Pathway	Gene Expression

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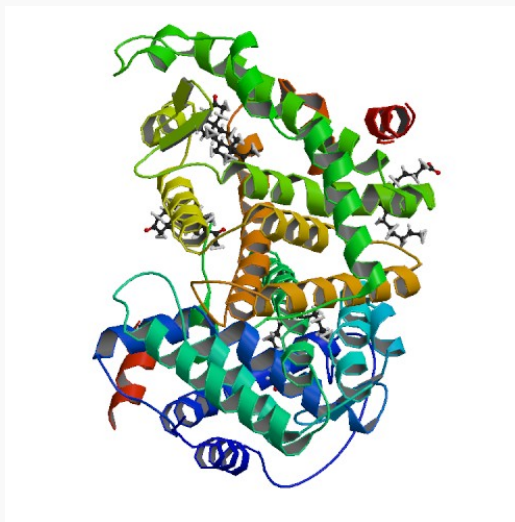
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Function

androgen receptor activity; metal ion binding; protein binding; sequence-specific DNA binding; transcription coactivator activity; transcription factor activity; zinc ion binding

PDB rendering based
on 1xv9.



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