

## Recombinant Human SPR, His-tagged

Cat. No. SPR-30400TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human SPR with N terminal His tag; 281 aa, 30.2 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	261 amino acids
<b>Description</b>	This gene encodes an aldo-keto reductase that catalyzes the NADPH-dependent reduction of pteridine derivatives and is important in the biosynthesis of tetrahydrobiopterin (BH4). Mutations in this gene result in DOPA-responsive dystonia due to sepiapterin reductase deficiency. A pseudogene has been identified on chromosome 1.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	30.200kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	pH: 8.00 Constituent: 0.32% Tris HCl
<b>Storage</b>	Please see Notes section

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**Sequences of amino acids**

MGSSHHHHHSSGLVPRGSHMEGGLGRAVCLLTGASRGFG RTLAPLLASLLSPGS  
 VLVLSARNDEALRQLEAELGAERSG LRVVRVPADLGAEAGLQQLLGALRELPRPKG  
 LQRLLLINN AGSLGDVSKGFVDLSDSTQVNNYWALNLTSMCLTSSVLK AFPDSPG  
 LNRTVVNISSLCALQPFGWALYCAGKAARDML FQVLALEEPNVRVLNYAPGPLDT  
 DMQQLARETSVDPDMRK GLQELKAKGKLVDCVSAQKLLSLEKDEFKSGAHVDF  
 YD K

**Sequence Similarities**

Belongs to the sepiapterin reductase family.

## GENE INFORMATION

**Gene Name** [SPR sepiapterin reductase \(7,8-dihydrobiopterin:NADP+ oxidoreductase\) \[ Homo sapiens \]](#)

**Official Symbol** [SPR](#)

**Synonyms** SPR; sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase); sepiapterin reductase; SDR38C1; short chain dehydrogenase/reductase family 38C; member 1;

**Gene ID** [6697](#)

**mRNA Refseq** [NM\\_003124](#)

**Protein Refseq** [NP\\_003115](#)

**MIM** [182125](#)

**Uniprot ID** [P35270](#)

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<b>Chromosome Location</b>	2p14-p12
<b>Pathway</b>	Folate biosynthesis, organism-specific biosystem; Folate biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nitric oxide, organism-specific biosystem;
<b>Function</b>	NADP binding; aldo-keto reductase (NADP) activity; oxidoreductase activity; sepiapterin reductase activity;

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