

Recombinant Human SPR, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length Human SPR with N terminal His tag; 281 aa, 30.2 kDa.
Species	Human
Source	E.coli
ProteinLength	261 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	30.200kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00Constituent:0.32% Tris HCl
Storage	Please see Notes section

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Sequences of amino acids

MGSSHHHHHHSSGLVPRGSHMEGGLGRAVCLLTGASRGFG RTLAPLLASLLSPGS
VLVLSARNDEALRQLEAELGAERSG LRVVRVPADLGAEAGLQQLLGALRELPRPKG
LQRLLLINN AGSLGDVSKGFVDLSDSTQVNNYWALNLTSMCLTSSVLK AFDSPG
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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Chromosome Location	2p14-p12
Pathway	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;
Function	NADP binding; aldo-keto reductase (NADP) activity; oxidoreductase activity; sepiapterin reductase activity;

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