

Recombinant Human SPR, His-tagged

Cat. No. SPR-30401TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SPR fused to His-tag at N-terminus; amino acids 1-261 , 30.2kDa.
Species	Human
Source	E.coli
ProteinLength	1-261 a.a.
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 sepiaterin reductase deficiency. A pseudogene has been identified on chromosome 1.
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 20mM Tris HCl, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MEGGLGRAVC LLTGASRGFG RTLAPLLASL LSPGSVLVLS ARNDEALRQL EAELGAERSG LRVVRVPADL GAEAGLQQLL GALRELPRPK GLQRLLLINN AGSLGDVSKG FVDLSDSTQV NNYWALNLTS MLCLTSSVLK AFDSPGLNR TVVNISSLCA LQPFKGWALY CAGKAARDML FQVLALEEPN VRVLNYAPGP LDTDMQQLAR ETSVDPDMRK GLQELKAKGK LVDCKVSAQK LLSLLEKDEF KSGAHVDFYD K
Sequence Similarities	Belongs to the sepiapterin reductase family.
Full Length	Full L.
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
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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