

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: None Constituents: 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids

MGSSHHHHH SSGLVPRGSH MEGGLGRAVC LLTGASRGFG RTLAPLLASL
 LSPGSVLVLS ARNDEALRQL EAELGAERSG LRVVRVPADL GAEAGLQQLL
 GALRELPRPK GLQRLLINN 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](#)

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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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