

Recombinant Human SPR 293 Cell Lysate

Cat. No. SPR-1499HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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; 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;

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Tetrahydrobiopterin (BH4) synthesis, recycling, salvage and regulation, organism-specific biosystem; eNOS activation and regulation, organism-specific biosystem;

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