

Recombinant Full Length Human SPR Protein, C-Flag-tagged

Cat. No. SPR-1089HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SPR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	27.9 kDa
AA Sequence	MEGGLGRAVCLLTGASRGFGRTLAPLLASLLSPGSVLVLSARNDEALRQLEAELGAE RSGLRVVRVPADL GAEAGLQQLLGALRELPRPKGLQRLLINNAGSLGDVSKGFVD LSDSTQVNNYWALNLTSMCLTSSVLK AFPDSPGLNRTVVNISSLCALQPFGKWAL YCAGKAARDMLFQVLALEEPNVRVLNYAPGPLDTDMQQLAR ETSVDPMRKGLQELKAKGKLVDCVSAQKLLSLEKDEFKSGAHVDFYDKTRTRP LEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Folate biosynthesis, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	SPR sepiapterin reductase [Homo sapiens (human)]
Official Symbol	SPR
Synonyms	SDR38C1
Gene ID	6697
mRNA Refseq	NM_003124.5
Protein Refseq	NP_003115.1
MIM	182125

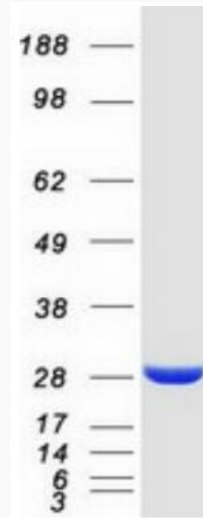
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UniProt ID

P35270



Coomassie blue staining of purified SPR protein.

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