

Product datasheet for **TP305679L**

SPR (NM_003124) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC205679 protein sequence
Red=Cloning site **Green**=Tags(s)

MEGGLGRAVCLLTGASRGFGRTLAPLLASLLSPGSVLVLSARNDEALRQLEAELGAERSGLRVVVPADL
GAEAGLQQLLALRELPRPKGLQRLLLINNAGSLGDVSKGFVDLSDSTQVNNY WALNLTSMCLTSSVLK
AFPDSPGLNRTVWNISLALQPFKGWALYCAGKAARDMLFQVLALEEPNVRVLNYAPGPLDTDMQQLAR
ETSVDPMRKGLQELKAKGKLVDCVSAQKLLSLEKDEFKSGAHVDFYDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 27.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_003115](#)

Locus ID: 6697



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UniProt ID: [P35270](#)

RefSeq Size: 1466

Cytogenetics: 2p13.2

RefSeq ORF: 783

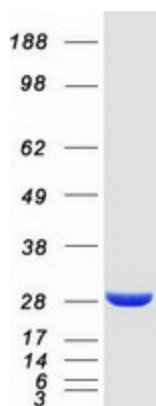
Synonyms: SDR38C1

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Folate biosynthesis, Metabolic pathways

Product images:



Coomassie blue staining of purified SPR protein (Cat# [TP305679]). The protein was produced from HEK293T cells transfected with SPR cDNA clone (Cat# [RC205679]) using MegaTran 2.0 (Cat# [TT210002]).