

## Product datasheet for **TP305679M**

### 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), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205679 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MEGGLGRAVCLLTGASRGFGRTLAPLLASLLSPGSVLVLSARNDEALRQLEAELGAERSGLRVVRVPADL  
GAEAGLQQLLGALRELPRPKGLQRLLINNAGSLGDVSKGFVDLSDSTQVNNYWALNLTSMCLTSSVLK  
AFPDSPGLNRTVNVNISSLCALQPFKGWALYCAGKAARDMLFQVLALEEPNVRVLNYAPGPLDMDMQLA  
R  
ETSVDPMRKGLQELKAKGKLVDCCKVSAQKLLSLEKDEFKSGAHVDFYDK

**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:	<u><a href="#">NP_003115</a></u>
Locus ID:	6697



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UniProt ID: [P35270](#)

RefSeq Size: 1466

Cytogenetics: 2p13.2

RefSeq ORF: 783

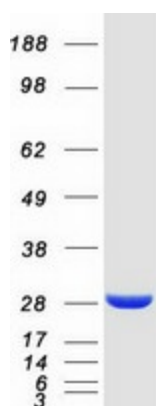
Synonyms: SDR38C1

**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]).