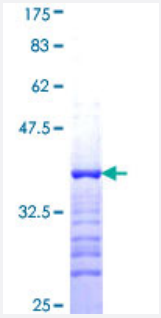
SPR (Human) Recombinant Protein (Q01)

Catalog # H00006697-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human SPR partial ORF (NP_003115, 164 a.a. - 260 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	FKGWALYCAGKAARDMLFQVLALEEPNVRVLNYAPGPLDTDMQQLARETSVDPDMRKGLQELK AKGKLVDCKVSAQKLLSLLEKDEFKSGAHVDFYD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.41
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SPR

Entrez GeneID	6697
GeneBank Accession#	NM_003124
Protein Accession#	NP_003115
Gene Name	SPR
Gene Alias	SDR38C1
Gene Description	sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)
Omim ID	182125
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an aldo-keto reductase that catalyzes the NADPH-dependent reduction of pte ridine derivatives and is important in the biosynthesis of tetrahydrobiopterin (BH4). Mutations in th is gene result in DOPA-responsive dystonia due to sepiaterin reductase deficiency. A pseudogen e has been identified on chromosome 1. [provided by RefSeq
Other Designations	short chain dehydrogenase/reductase family 38C, member 1

Pathway

- Folate biosynthesis
- Metabolic pathways

Disease

- Autistic Disorder
- Bipolar Disorder
- Dystonic Disorders
- Genetic Predisposition to Disease
- Parkinson disease
- Parkinsonian Disorders