

Sepiapterin reductase Recombinant Protein | SPR recombinant protein

Sepiapterin reductase, 1-261aa, Human, His tag, E Coli

CATALOG # AAA11765	HOST E Coli	APPLICATIONS SDS-Page
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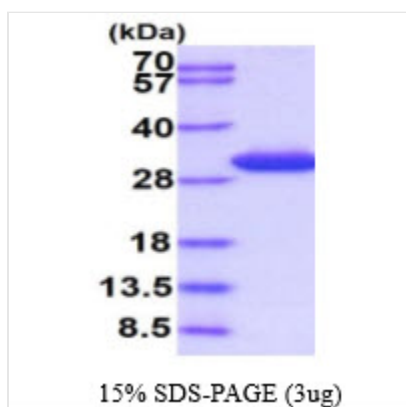
PRODUCT SYNONYMS

Sepiapterin reductase; 1-261aa; Human; His tag; E Coli; SPR; Sepiapterin reductase.; SPR recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0), 10% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MEGGLGRAVC LLTGASRGFG RTLAPLLASL LSPGSVLVLS ARNDEALRQL EAE LGAERSG LRVRVPADL GAEAGLQQLL GALRELPRPK GLQRLLINN AGSLGDVSKG FVDLS DSTQV NNYWALN LTS MLCLTSSVLK AFPDSPGLNR TVVNISSLCA LQPFKGWALY CAGKAARDML FQVLALEEPN VRVLNYAPGP LDTDMQQLAR ETSVDPDMRK GLQELKAKGK LVDCKVSAQK LLSLLEKDEF KSGAHVDFYD K
Sequence Length	261
Applicable Applications for SPR recombinant protein	SDS-PAGE
Tag Information	His-Tag
Domain	1-261aa
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for one week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freeze/thaw cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for SPR recombinant protein	Sepiapterin reductase (SPR) belongs to the short-chain dehydrogenase/reductase (SDR) family and also reduces various exogenous carbonyl compounds including phenylpropanedione. SPR is an essential enzyme for the biosynthesis of tetrahydrobiopterin, an essential cofactor for aromatic amino acid hydrolases including tyrosine hydroxylase, the rate-limiting enzyme in dopamine synthesis. Defects in SPR cause DOPA-responsive dystonia defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. Recombinant human SPR protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for SPR recombinant protein	Redox Proteins
References	Tobin JE., et al. (2007). Brain Res. 30:42-7.; Ohye T., et al. (1998). Biochem Biophys Res Commun. 251 (2):597-602.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507185
NCBI GeneID	6697
NCBI Accession #	NP_003115
NCBI GenBank Nucleotide #	NM_003124.4
UniProt Accession #	P35270; Q53GI9; Q9UBB1; A8K741; D6W5H2
Molecular Weight	30.2 kDa (281aa), confirmed by MALDI-TOF.
NCBI Official Full Name	sepiapterin reductase
NCBI Official Synonym Full Names	sepiapterin reductase
NCBI Official Symbol	SPR
NCBI Official Synonym Symbols	SDR38C1
NCBI Protein Information	sepiapterin reductase
UniProt Protein Name	Sepiapterin reductase
UniProt Gene Name	SPR
UniProt Synonym Gene Names	SPR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/spr-recombinant-protein-e-coli-sds-page/11765>