



Recombinant Mouse Sepiapterin reductase (Spr)

Product Code	CSB-EP714467MO-B
Abbreviation	Spr
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q64105
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥85% (SDS-PAGE)
Sequence	MEADGLGCAV CVLTGASRGF GRALAPQLAR LLSPGSVMLV SARSEMLRQ LKEELGAQQP DLKVVLAAD LGTEAGVQRL LSAVRELPRP EGLQRLLIN NAATLGDVSK GFLNVNDLAE VNNYWALNLT SMLCLTSGTL NAFQDSPGLS KTVVNISSLC ALQPYKGWGL YCAGKAARDM LYQVLAAEEP SVRVLSYAPG PLDNMQQLA RETSKDPELR SKLQKLKSDG ALVDCG TSAQ KLLGLLQKDT FQSGAHVDFY D
Source	E.coli
Target Names	Spr
Protein Names	Recommended name: Sepiapterin reductase Short name= SPR EC= 1.1.1.153
Expression Region	1-261
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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 sepiapterin reductase deficiency. A pseudogene has been identified on chromosome 1.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.