



# Recombinant Mouse Sepiapterin reductase (Spr)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP714467MO  |
| <b>Abbreviation</b>      | Spr   |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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.  |
| <b>Uniprot No.</b>       | Q64105  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Mus musculus (Mouse)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | MEADGLGCAV CVLTGASRGF GRALAPQLAR LLSPGSVMLV SARSEMLRQ<br>LKEELGAQQP DLKVVLAAD LGTEAGVQRL LSAVRELPRP EGLQRLLIN<br>NAATLGDVSK GFLNVNDLAE VNNYWALNLT SMLCLTSGTL NAFQDSPGLS<br>KTVVNISSLC ALQPYKGWGL YCAGKAARDM LYQVLAAEEP SVRVLSYAPG<br>PLDNDMQLLA RETSKDPELR SKLQKLKSDG ALVDCG TSAQ KLLGLLQKDT<br>FQSGAHVDFY D  |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | Spr   |
| <b>Protein Names</b>     | Recommended name: Sepiapterin reductase Short name= SPR EC= 1.1.1.153   |
| <b>Expression Region</b> | 1-261   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | full length protein   |
| <b>Target Details</b>    | 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.  |
| <b>Reconstitution</b>    | 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. |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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.  |